

**JVC**

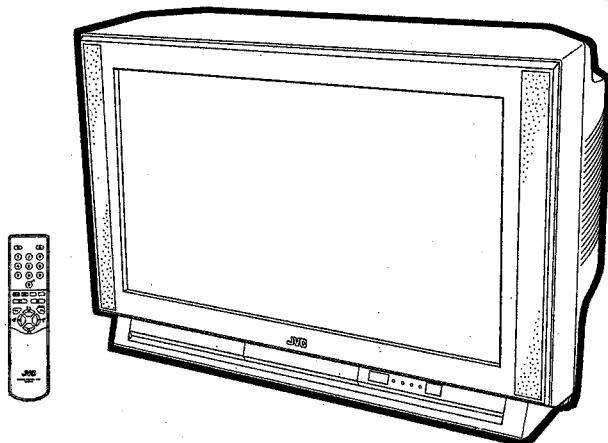
# **SERVICE MANUAL**

**COLOUR TELEVISION**

**BASIC CHASSIS**

**JK**

**AV-28WFT1EPG AV-32WFT1EPG**  
**AV-28WFT1EPS AV-32WFT1EPS**  
**AV-28WFT1EIS AV-32WFT1EKS**  
**AV-28WFT1EKS**  
**AV-28WFT1EK**



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AV-28WFT1EPG AV-28WFT1EIS

AV-28WFT1EPS

AV-28WFT1EKS

AV-28WFT1EK

AV-28WFT1EK

# SPECIFICATIONS

Item	Content		
	AV-28WFT1EPG/AV-28WFT1EPS	AV-28WFT1EK/AV-28WFT1EKS	AV-28WFT1EIS
Dimensions ( W x H x D ) Mass	780mm x 509mm x 499mm 39.0kg	↔ ↔	↔ ↔
TV RF System	CCIR (B/G, I, L)	CCIR (I)	CCIR (I)
Colour System	PAL / SECAM / NTSC (Only in EXT mode)	PAL / NTSC (Only in EXT mode)	PAL / NTSC (Only in EXT mode)
Stereo System	A2 / NICAM	NICAM	NICAM
Teletext System	Fastext (United Kingdom system) TOP (German system) WST (Standard system)	Fastext (United Kingdom system) WST (Standard system)	↔
Receiving Frequency			
VHF	47MHz ~ 470MHz	_____	47MHz ~ 470MHz
UHF	470MHz ~ 862MHz	470MHz ~ 862MHz	470MHz ~ 862MHz
French CA TV	116MHz ~ 172MHz / 220MHz ~ 469MHz	_____	_____
Intermediate Frequency			
VIF Carrier	38.9MHz (B/G, I, L) / 33.95MHz (L')	38.9MHz (I)	38.9MHz (I)
SIF Carrier	33.4MHz (5.5MHz:B/G) / 32.9MHz (6.0MHz:I) / 32.4MHz (6.5MHz:L) / 27.45MHz (6.5MHz:L')	32.9MHz (6.0MHz:I)	32.9MHz (6.0MHz:I)
Colour Sub Carrier Freq.			
PAL	4.43MHz	4.43MHz	4.43MHz
SECAM	4.40625MHz / 4.25MHz	_____	_____
NTSC	3.58MHz / 4.43MHz	3.58MHz / 4.43MHz	3.58MHz / 4.43MHz
Power Input	AC 220V ~ 240V, 50Hz		
Power Consumption	168W (Max) / 115W (Avg), 115W/h (ITALY)	↔ _____	↔ _____
Aerial Input Term	75Ω unbalanced, Coaxial	↔	↔
Picture Tube	Visible size : 66cm, Measured diagonally		
High Voltage	31.0kV <sup>+1kV</sup> <sub>-1.5kV</sub> (at zero beam current)	↔	↔
Speaker	16 x 4cm Oval Type x 2	↔	↔
Audio Output	7.5W + 7.5W	↔	↔
EXT-1/EXT-2/EXT-3 (Input / Output)	21-pin Euro connector (SCART socket)	↔	↔
EXT-4 (Input)	1Vp-p 75Ω (RCA pin jack)		
Audio (L/R)	500mVrms (-4dBs), High Impedance (RCA pin jack)		
S / Video	Y : 1Vp-p POSITIVE (Negative sync Provided, when terminated with 75Ω) C : 0.286Vp-p (Burst signal, when terminated with 75Ω)	↔	↔
AUDIO OUT (Variable)	0~1Vrms, Low Impedance (RCA pin jack x 2)	↔	↔
Headphone jack	Stereo mini jack (φ3.5mm)		
Remote Control Unit	RM-C50 (AAA/R03 dry battery x 2)	RM-C51 (AAA/R03 dry battery x 2)	↔

Design &amp; specifications are subject to change without notice.

# SPECIFICATIONS

Item	Content	
	AV-32WFT1EPG/AV-32WFT1EPS	AV-32WFT1EKS
Dimensions ( W x H x D ) Mass	855mm x 550mm x 568mm 56.5kg	← ←
TV RF System	CCIR (B/G, I, L)	CCIR (I)
Colour System	PAL / SECAM / NTSC (Only in EXT mode)	PAL / NTSC (Only in EXT mode)
Stereo System	A2 / NICAM	NICAM
Teletext System	Fastext (United Kingdom system) TOP (German system) WST(Standard system)	Fastext (United Kingdom system) WST(Standard system)
Receiving Frequency		
VHF	47MHz ~ 470MHz	_____
UHF	470MHz ~ 862MHz	470MHz ~ 862MHz
French CA TV	116MHz ~ 172MHz / 220MHz ~ 469MHz	_____
Intermediate Frequency		
VIF Carrier	38.9MHz (B/G, I, L) / 33.95MHz (L')	38.9MHz (I)
SIF Carrier	33.4MHz (5.5MHz:B/G) / 32.9MHz (6.0MHz:I) / 32.4MHz (6.5MHz:L) / 27.45MHz (6.5MHz:L')	32.9MHz (6.0MHz:I)
Colour Sub Carrier Freq.		
PAL	4.43MHz	4.43MHz
SECAM	4.40625MHz / 4.25MHz	_____
NTSC	3.58MHz / 4.43MHz	3.58MHz / 4.43MHz
Power Input		
Power Consumption	AC 220V~240V, 50Hz 172W (Max) / 121W (Avg)	← _____
Aerial Input Term	75Ω unbalanced, Coaxial	←
Picture Tube	Visible size : 76cm, Measured diagonally	←
High Voltage	+1kV 31.0kV -1.5kV (at zero beam current)	←
Speaker	Ø 10cm round x 2	←
Audio Output	7.5W + 7.5W	←
EXT-1/EXT-2/EXT-3 (Input / Output)	21-pin Euro connector (SCART socket)	←
EXT-4 (Input)	1Vp-p 75Ω (RCA pin jack)	←
Video	500mVrms ( -4dBs ), High Impedance ( RCA pin jack )	←
Audio(L/R)	Y : 1Vp-p POSITIVE (Negative sync Provided, when terminated with 75Ω)	←
S / Video	C : 0.286Vp-p (Burst signal, when terminated with 75 Ω)	←
AUDIO OUT	0~1Vrms, Low Impedance (RCA pin jack)	←
Headphone jack	Stereo mini jack (Ø 3.5mm)	←
Remote Control Unit	RM-C50 (AAA/R03 dry battery x 2)	RM-C51 (AAA/R03 dry battery x 2)

Design & specifications are subject to change without notice.

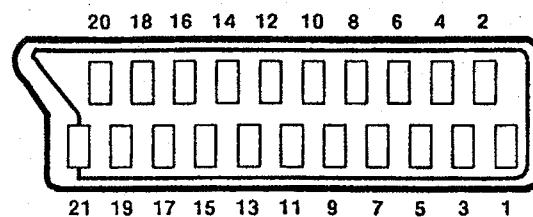
AV-28WFT1EPG AV-28WFT1EIS  
 AV-28WFT1EPS AV-32WFT1EPG  
 AV-28WFT1EKS AV-32WFT1EPS  
 AV-28WFT1EK AV-32WFT1EKS

## ■ 21-pin Euro connector (SCART socket) : EXT-1 / EXT-2 / EXT-3

(P-P= Peak to Peak, S-W= Sync tip to white peak, B-W= Blanking to white peak)

Pin No.	Signal Designation	Matching Value	EXT-1	EXT-2	EXT-3
1	AUDIO R output	500mVrms(Nominal), Low impedance	○ (TV OUT)	○ (LINE OUT)	NC
2	AUDIO R input	500mVrms(Nominal), High impedance	○	○	○
3	AUDIO L output	500mVrms(Nominal), Low impedance	○ (TV OUT)	○ (LINE OUT)	NC
4	AUDIO GND		○	○	○
5	GND (B)		○	○	○
6	AUDIO L input	500mVrms(Nominal), High impedance	○	○	○
7	B input	700mV <sub>B-W</sub> , 75Ω	○	NC	NC
8	FUNCTON SW (SLOW SW)	Low : 0-3V, High : 8-12V, High impedance	○	○	○
9	GND (G)		○	○	○
10	SCL3		NC	○	NC
11	G input	700mV <sub>B-W</sub> , 75Ω	○	NC	NC
12	SDA3		NC	○	NC
13	GND (R)		○	○	○
14	GND (Y <sub>s</sub> )		○	NC	NC
15	R / C input	R : 700mV <sub>B-W</sub> , 75Ω C : 300mV <sub>P-P</sub> , 75Ω	○ (only R)	○ (only C)	○ (only C)
16	Y <sub>s</sub> input	Low : 0 - 0.4, High : 1 - 3V, 75Ω	○	NC	NC
17	GND(VIDEO output)		○	○	○
18	GND(VIDEO input)		○	○	○
19	VIDEO output	1V <sub>P-P</sub> (Negative going sync), 75Ω	○ (TV)	○ (LINE OUT)	NC
20	VIDEO / Y input	1V <sub>P-P</sub> (Negative going sync), 75Ω	○	○	○
21	COMMON GND		○	○	○

[Pin assignment]



# SAFETY PRECAUTIONS

**AV-28WFT1EIS / AV-28WFT1EK**

**AV-32WFT1EKS / AV-28WFT1EKS**

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessary be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which

have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may cause shock, fire, or other hazards.

4. The leads in the products are routed and dressed with ties, clamps, tubing's, barriers and the like to be separated from live parts, high temperature parts, moving parts and / or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

## WARNING

1. The equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

# SAFETY PRECAUTIONS

**AV-28WFT1EPG / AV-32WFT1EPG  
AV-28WFT1EPS / AV-32WFT1EPS**

1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (Δ) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
4. **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**  
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED(NEUTRAL) : (↔) side GND and EARTH : (⊕) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.  
If above note will not be kept, a fuse or any parts will be broken.
5. If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).
6. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
7. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a  $10k\Omega$  2W resistor to the anode button.
8. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

## 9. Isolation Check

### (Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

#### (1) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second.

(... Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)

This method of test requires a test equipment not generally found in the service trade.

#### (2) Leakage Current Check

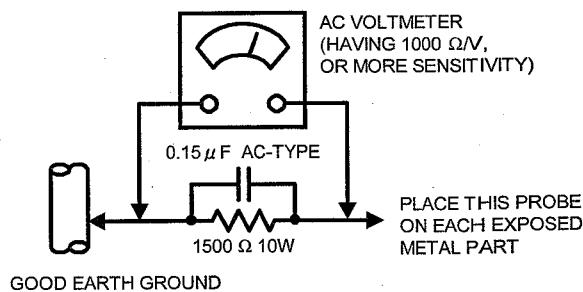
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

#### ● Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a  $1500\Omega$  10W resistor paralleled by a  $0.15\mu F$  AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).

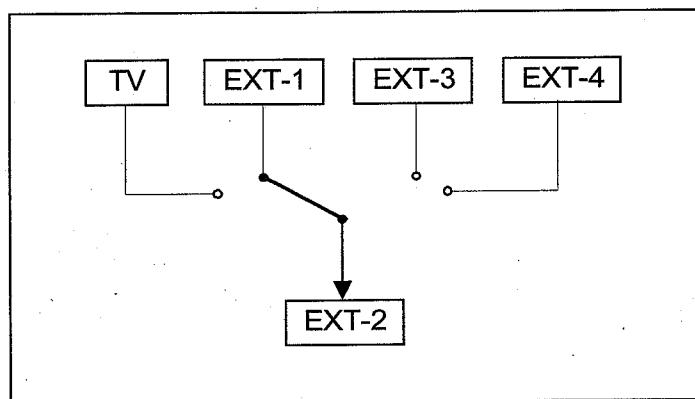


AV-28WFT1EPG AV-28WFT1EIS  
AV-28WFT1EPS AV-32WFT1EPG  
AV-28WFT1EKS AV-32WFT1EPS  
AV-28WFT1EK AV-32WFT1EKS

# FEATURES

- By preference, users can select the picture size from REGULAR, PANORAMIC, FULL, 14:9 ZOOM, 16:9 ZOOM, 16:9 ZOOM SUB TITLE modes. When the TV unit received WSS picture signal, the picture can be changed to 16:9 ZOOM mode automatically.
- The TELETEXT SYSTEM has a built-in FASTEXT, TOP and WST system.
- Because this TV unit corresponds to multiplex broadcast, users can enjoy music programs and sporting events with live realism. In addition, BILINGUAL programs can be heard in their original language.

- Built-in ECO (ECONOMY, ECOLOGY) MODE. In accordance with the brightness in a room, the brightness and/or contrast of the picture can be adjusted automatically to make the optimum picture which is easy on the eye.
- Users can make VCR dubbing of picture and sound by controlling the AV selector to select an optional source at the EXT-2 output shown in figure.



AV-28WFT1EPG AV-28WFT1EIS

AV-28WFT1EPS

AV-28WFT1EKS

AV-28WFT1EK

# MAIN DIFFERENCE PARTS LIST (28" MODEL)

△	Model Name Part Name	AV-28WFT1EPG	AV-28WFT1EPS	AV-28WFT1EKS	AV-28WFT1EK	AV-28WFT1EIS
	MAIN PWB	SJK-1702A-U2	←	SJK-1902A-U2	←	SJK-1702A-U2
	AV SEL PWB	SJK0S701A-U2	←	SJK0S901A-U2	←	SJK0S701A-U2
△	POWER CORD	QMPK160-185-JC	←	QMPN130-185-JC	←	←
△	FRONT CABINET	LC10662-005A-U	LC10662-006A-U	←	LC10662-003C-U	LC10662-006A-U
	CONTROL SHEET	LC31109-002A-U	LC31109-004A-U	←	←	←
△	REAR COVER	LC10664-00C-U	LC10664-002A-U	←	LC10664-00C-U	LC10664-002A-U
	DOOR (SERVICE)	LC20265-003A-U	LC20265-010A-U	←	LC20265-006A-U	LC20265-010A-U
	POWER KNOB (SERVICE)	LC30578-002A-C	LC30578-006A-C	←	LC30578-004A-C	LC30578-006A-C
△	RATING LABEL	LC20542-003A-U	LC20542-004A-U	LC20091-012A-U	LC20091-014A-U	LC20080-007A-U
	EURO LABEL	AEM1039-070-E	AEM1039-079-E	AEM1039-072-E	AEM1039-080-E	AEM1039-081-E
△	INST BOOK	LCT0619-001A-U	←	LCT0621-001A-U	LCT0622-001A-U	←
△	INST BOOK	LCT0620-001A-U	←	_____	_____	_____
	X-RAY CORD	AEM1050-001-E	←	_____	_____	_____
	S.DIAGRAM ONLY ITALY(SERVICE)	2832WFT1-HSAE	←	_____	_____	_____
	REMOCON UNIT	RM-C50-1C	←	RM-C51-1C	←	←

AV-32WFT1EPG  
AV-32WFT1EPS  
AV-32WFT1EKS

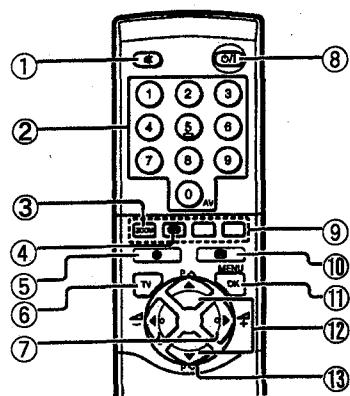
# MAIN DIFFERENCE PARTS LIST (32"MODEL)

△	Model Name Part Name	AV-32WFT1EPG	AV-32WFT1EPS	AV-32WFT1EKS
	MAIN PWB	SJK-1701A-U2	←	SJK-1901A-U2
	AV SEL PWB	SJK0S701A-U2	←	SJK0S901A-U2
△	POWER CORD	QMPK160-185-JC	←	QMPN130-185-JC
△	FRONT CABINET	LC10376-003B-U	LC10376-008A-U	←
	CONTROL SHEET	LC30597-002A-U	LC30597-006A-U	←
	DOOR (SERVICE)	LC20265-003A-U	LC20265-010A-U	←
	POWER KNOB (SERVICE)	LC30578-002A-C	LC30578-006A-C	←
△	RATING LABEL	LC20542-001A-U	LC20542-002A-U	LC20091-011A-U
	EURO LABEL	AEM1039-071-E	AEM1039-077-E	AEM1039-073-E
△	REAR COVER	LC10378-001D-U	LC10378-003A-U	←
△	INST BOOK	LCT0619-001A-U	←	LCT0621-001A-U
△	INST BOOK	LCT0620-001A-U	←	—
	X-RAY CORD	AEM1051-001-E	←	—
	S.DIAGRAM ONLY ITALY (SERVICE)	2832WFT1-HSAE	←	—
	REMOCON UNIT	RM-C50-1C	←	RM-C51-1C

AV-28WFT1EPG AV-28WFT1EIS  
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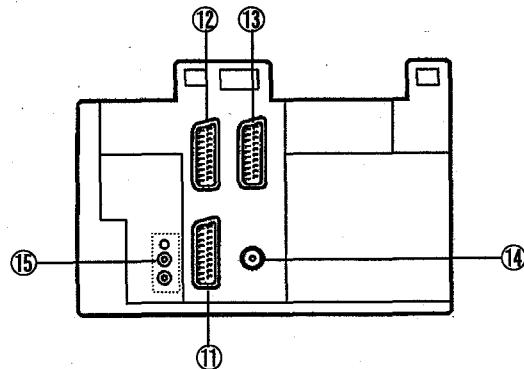
# FUNCTIONS

## REMOTE CONTROL UNIT

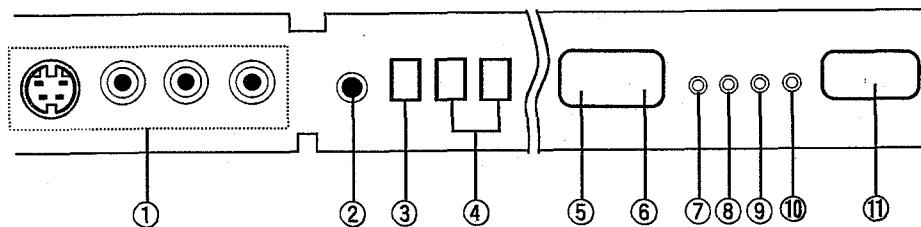


- ① Muting
- ② Number Buttons
- ③ ZOOM
- ④ Hyper Sound
- ⑤ Information
- ⑥ TV
- ⑦ Volume -/+
- ⑧ Standby
- ⑨ Colour Buttons
- ⑩ TEXT
- ⑪ OK / MENU
- ⑫ PR Channel ▼/▲
- ⑬ ▲/▼/◀/▶

## REAR PANEL



- ⑪ EXT-1 Terminal
- ⑫ EXT-2 Terminal
- ⑬ EXT-3 Terminal
- ⑭ Aerial Socket
- ⑮ Audio out



- ① EXT-4 terminals
- ② Headphone jack (mini jack)
- ③ ▲ (Volume) button
- ④ P ▼/▲ buttons / ▲ -/+ buttons
- ⑤ Remote control sensor
- ⑥ ECO sensor
- ⑦ Hyper Sound lamp
- ⑧ ECO lamp
- ⑨ Sleep timer lamp
- ⑩ Power lamp
- ⑪ Main power button

# SPECIFIC SERVICE INSTRUCTIONS

## DISASSEMBLY PROCEDURE

### REMOVING THE REAR COVER

1. Unplug the power cord.
2. Remove the 13 screws marked "A" as shown in the Fig. 1.
3. Withdraw the rear cover toward you.

### REMOVING THE CHASSIS

- After removing the rear cover.
- 1. Slightly raise the both sides of the chassis by hand and remove the two claws under the both sides of the chassis from the front cabinet.
- 2. Withdraw the chassis backward.  
(If necessary, take off the wire clamp, connectors etc.)

### REMOVING THE AV TERMINAL BOARD

- After removing the rear cover.
- 1. Remove the 3 screws marked "C" as shown in the Fig. 1.
- 2. Remove the claws marked "D" under the CHASSIS as shown in Fig. 2.
- 3. While raising the claw marked "E", remove the top of the AV TERMINAL BOARD slightly in the direction of arrow "F" as shown in Fig. 2.

### REMOVING THE DOME SPEAKER BOX and SPEAKER HORN

- After removing the rear cover.

#### [32" MODEL]

1. After removing the 2 screws marked "G" remove the dome speaker box as shown in Fig. 1.
2. After removing the 2 screws marked "H" remove the speaker horn as shown in Fig. 1.
3. Follow the same steps when removing the other hand dome speaker box and speaker horn.

**NOTE:** When removing the screws marked "G" of the dome speaker box remove the lower side screw first, and then remove the upper screw.

### REMOVING THE SPEAKER

#### [28" MODEL]

1. After removing the 2 screws marked "I" remove the speaker box as shown in Fig. 3.
2. After removing the 2 screws marked "J" remove the speaker as shown in Fig. 3.
3. After removing the 2 screws marked "K" remove the speaker adapter as shown in Fig. 3.
4. Follow the same steps when removing the other hand speaker.

### REMOVING THE CONTROL BASE

- After removing the CHASSIS.

1. While pushing down the claws marked "L", remove the CONTROL BASE in the arrow direction "M" as shown in Fig. 4.

### CHECKING THE PW BOARD

To check the back side of the PW Board.

- 1) Pull out the chassis. (Refer to REMOVING THE CHASSIS).
- 2) Erect the chassis vertically so that you can easily check the back side of the PW Board.

#### [CAUTION]

- When erecting the chassis, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS' Y) is connected to the CRT SOCKET PW board.

### WIRE CLAMPING AND CABLE TYING

1. Be sure to clamp the wire.
2. Never remove the cable tie used for tying the wires together. Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

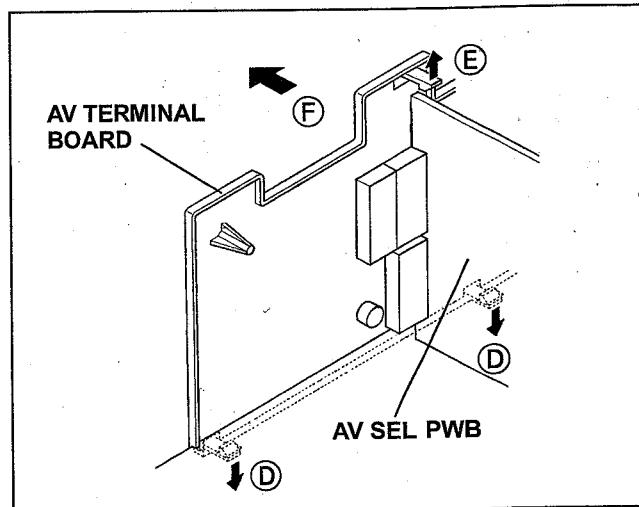


Fig. 2

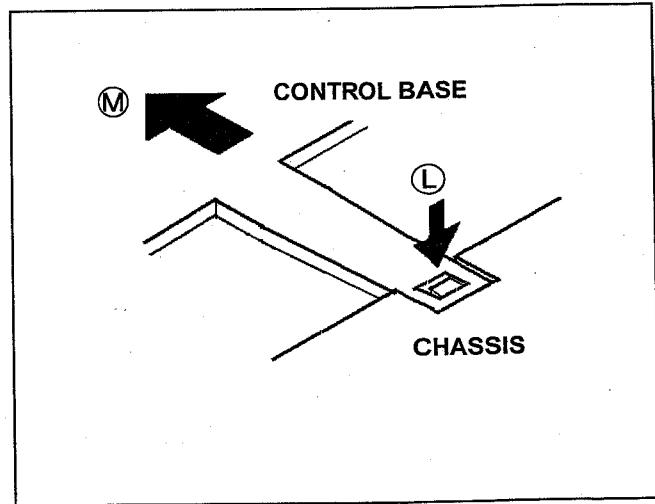


Fig. 4

AV-28WFT1EPG AV-28WFT1EIS  
 AV-28WFT1EPS AV-32WFT1EPG  
 AV-28WFT1EKS AV-32WFT1EPS  
 AV-28WFT1EK AV-32WFT1EKS

**32" MODEL**

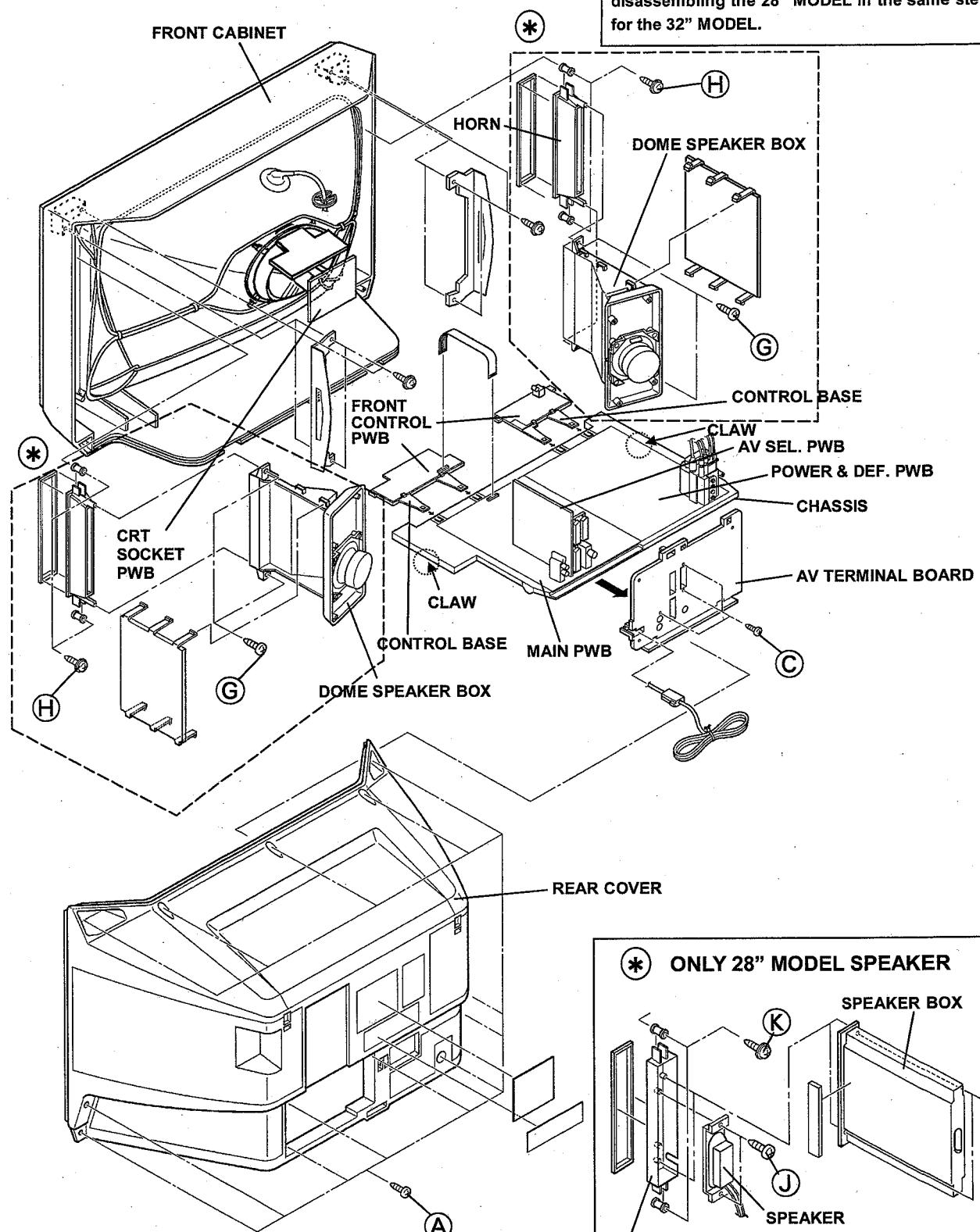


Fig. 1

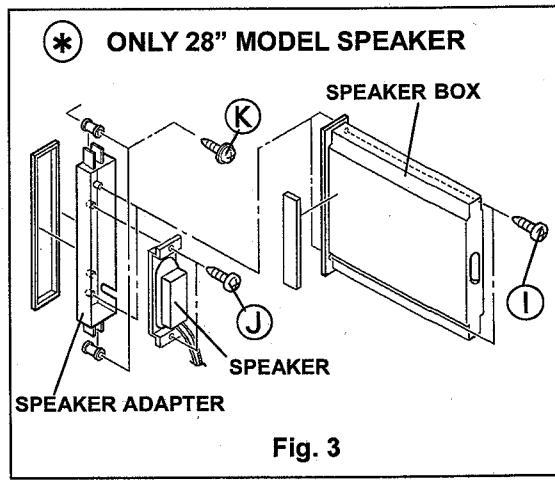


Fig. 3

## REMOVING THE CRT

- \* Replacement of the CRT should be performed by 2 or more persons.
- After removing the cover, chassis etc.,
- 1. Putting the CRT change table on soft cloth, the CRT change table should also be covered with such soft cloth (shown in Fig.5).
- 2. While keeping the surface of CRT down, mount the TV set on the CRT change table balanced will as shown in Fig.6.
- 3. Remove 4 screws marked by arrows with a box type screw driver as shown in Fig.6.
- Since the cabinet will drop when screws have been removed, be sure to support the cabinet with hands.
- 4. After 4 screws have been removed, put the cabinet slowly on cloth (At this time, be carefully so as not to damage the front surface of the cabinet) shown in Fig.7.
- The CRT should be assembled according to the opposite sequence of its dismounting steps.
- \* The CRT change table should preferably be smaller than the CRT surface, and its height be about 35cm.

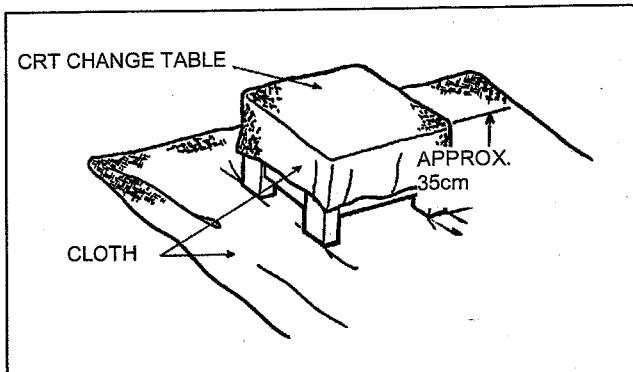


Fig. 5

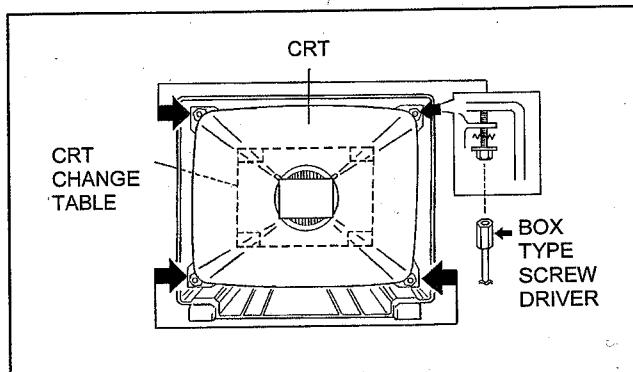


Fig. 6

## COATING OF SILICON GREASE FOR ELECTRICAL INSULATION ON THE CRT ANODE CAP SECTION.

- Subsequent to replacement of the CRT and HV transformer or repair of the anode cap, etc. by dismounting them, be sure to coat silicon grease for electrical insulation as shown in Fig.8.
- Wipe around the anode button with clean and dry cloth. (Fig.8)  
 Coat silicon grease on the section around the anode button. At this time, take care so that any silicon greases dose not stick to the anode button. (Fig.9)

★ Silicon grease product No. KS - 650N

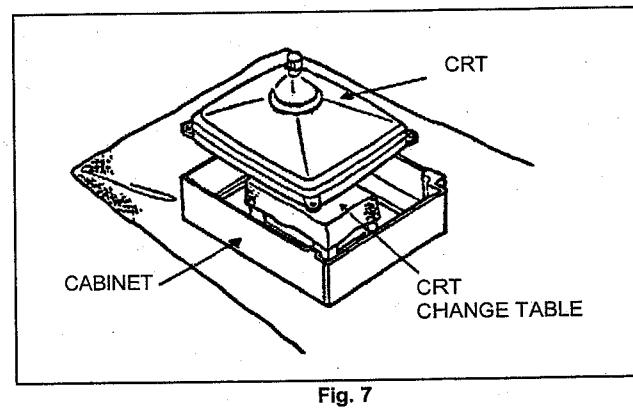


Fig. 7

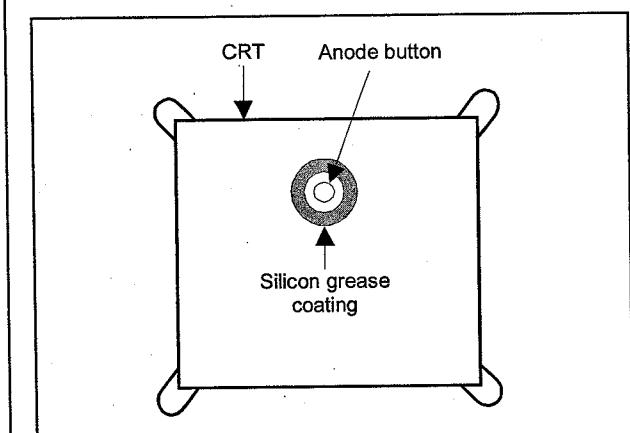


Fig. 8

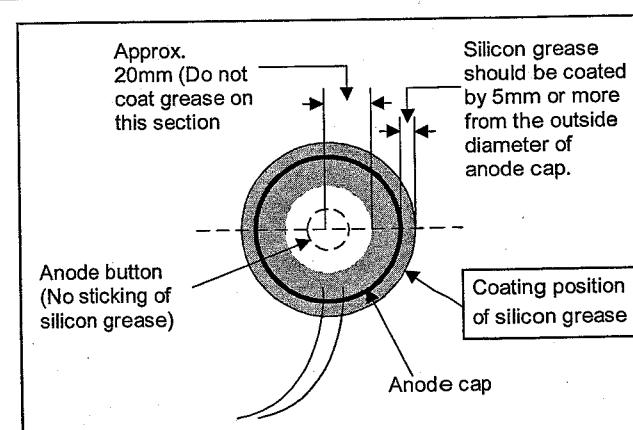


Fig. 9

AV-28WFT1EPG AV-28WFT1EIS  
 AV-28WFT1EPS AV-32WFT1EPG  
 AV-28WFT1EKS AV-32WFT1EPS  
 AV-28WFT1EK AV-32WFT1EKS

## REPLACEMENT OF MEMORY ICs

### 1. Memory ICs

This TV use memory ICs. In the memory ICs, there are memorized data for correctly operating the video and deflection circuits. When replacing memory ICs, be sure to use ICs written with the initial values of data.

### 2. Procedure for replacing memory ICs

PROCEDURE	
<b>(1) Power off</b>	Switch the power off and unplug the power cord from the outlet.
<b>(2) Replace ICs.</b>	Be sure to use memory ICs written with the initial data values.
<b>(3) Power on</b>	Plug the power cord into the outlet and switch the power on.
<b>(4) Check and set SYSTEM CONSTANT SET:</b>	<ul style="list-style-type: none"> <li>* It must not adjust without signal.</li> </ul> <ol style="list-style-type: none"> <li>1) Press the INFORMATION key and the MUTING key of the REMOTE CONTROL UNIT simultaneously.</li> <li>2) The SERVICE MENU screen of Fig. 1 will be displayed.</li> <li>3) While the SERVICE MENU is displayed, press the INFORMATION key and MUTING key simultaneously, and the SYSTEM CONSTANT SET screen of Fig. 2 will be displayed.</li> <li>4) Check the setting values of the SYSTEM CONSTANT SET of Table 1. If the value is different, select the setting item with the FUNCTION UP/DOWN key, and set the correct value with the FUNCTION -/+ key.</li> <li>5) Press the MENU key to memorize the setting value.</li> <li>6) Press the INFORMATION key twice, and return to the normal screen.</li> </ol>
<b>(5) Setting of receive channels</b>	<p>Set the receive channel.    For setting, refer to the OPERATING INSTRUCTIONS.</p>
<b>(6) User settings</b>	<p>Check the user setting values of Table 2, and if setting value is different, set the correct value.    For setting, refer to the OPERATING INSTRUCTIONS.</p>
<b>(7) Setting of SERVICE MENU</b>	<p>Verify the setting items of the SERVICE MENU of Table 3, and reset where necessary.    For setting, refer to the SERVICE ADJUSTMENTS.</p>

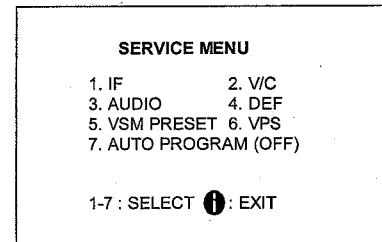


Fig.1

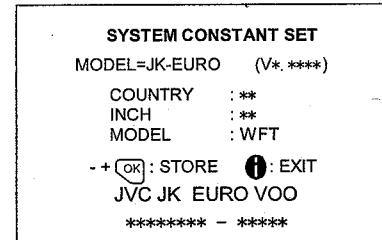


Fig.2

Names of key	key
INFORMATION	
MUTING	
MENU	
FUNCTION UP/DOWN	
FUNCTION -/+	

AV-28WFT1EPG AV-28WFT1EIS  
 AV-28WFT1EPS AV-32WFT1EPG  
 AV-28WFT1EKS AV-32WFT1EPS  
 AV-28WFT1EK AV-32WFT1EKS

### SETTING VALUES OF SYSTEM CONSTANT SET (TABLE 1)

Setting item	Setting content	Setting value				
		AV-32WFT1EPG AV-32WFT1EPS	AV-32WFT1EKS	AV-28WFT1EPG AV-28WFT1EPS	AV-28WFT1EKS	AV-28WFT1EK
COUNTRY	► EK ► EN ► EP IR ← EE ←	EP	EK	EP	EK	IR
INCH	► 28 → 32	32	←	28	←	←
MODEL	► WFT → WFR	WFT	←	←	←	←

### USER SETTING VALUES (TABLE 2)

PICTURE SETTING		EXT SETTING	
TINT CONTRAST BRIGHT SHARP COLOUR ECO MODE	COOL REFER to VSM PRESET OFF	ID S-IN DUBBING	BLANK BLANK EXT-1→EXT-2
PICTURE FEATURES		FEATURES	
AUTO VNR COLOUR SYSTEM 4:3 AUTO ASPECT PICTURE TILT	AUTO TV : According to preset CH EXT : AUTO PANORAMIC CENTER	SLEEP TIMER BLUE BACK CHILD LOCK DECODER (EXT-2)	OFF ON ID : No.**** ALL CH OFF OFF
SOUND SETTING		INSTALL	
STEREO / I · II BASS TREBLE BALANCE ALC BBE HYPER SOUND SPEAKER	CENTER OFF ON OFF ON	LANGUAGE EDIT/MANUAL	ENGLISH PRESET CH only The others : BLANK
		DEMO	OFF

### SERVICE MENU SETTING ITEMS (TABLE 3)

Setting item	Setting value	Setting item	Setting value
1. IF	VCO	4. DEF.	1. V-SHIFT 2. V-SIZE 3. SUBTITLE 4. H-CENT 5. H-SIZE 6. EW-PIN 7. TRAPEZ 8. EW. COR. L 9. EW. COR. H 10. V. S-COR 11. V. LIN 12. H-BLK-R 13. H-BLK-L 14. V-EHT 15. H-EHT 16. EMT-GAIN
2. V / C	1. CUT OFF 2. DRIVE 3. BRIGHT 4. CONT. 5. COLOUR 6. HUE 7. BLACK OFFSET (Only SECAM) 8. SHARP 9. PURITY	5. VSM PRESET COOL NORMAL WARM	1. BRIGHT 2. CONT. 3. COLOUR 4. SHARP 5. HUE 6. R DRIVE 7. B DRIVE
1. AUDIO (Do not adjust)	1. CONC LIMIT 2. A2 ID THR 3. ALC 4. BASS 5. TREBLE	6. VPS (Do not adjust)	VPS PDC
		7. AUTO PROGRAM (Do not adjust)	ON / OFF

AV-28WFT1EPG AV-28WFT1EIS  
AV-28WFT1EPS AV-32WFT1EPG  
AV-28WFT1EKS AV-32WFT1EPS  
AV-28WFT1EK AV-32WFT1EKS

# SERVICE ADJUSTMENTS

## BEFORE STARTING SERVICE ADJUSTMENT

1. There are 2 ways of adjusting this TV: One is with the REMOTE CONTROL UNIT and the other is the conventional method using adjustment parts and components.
2. The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
3. Make sure that connection is correctly made to AC power source.
4. Turn on the power of the TV and measuring instrument for warming up for at least 30 minutes before starting adjustment.
5. If the receive or input signal is not specified, use the most appropriate signal for adjustment.
6. Never touch parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.

7. Preparation for adjustment (presetting):

Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT:

- Setting position

PICTURE MODE (VSM)	NORMAL
SLEEP TIMER	OFF
BALANCE	CENTER
ECO	OFF
ZOOM	PANORAMIC
DIGITAL SURROUND	OFF

## MEASURING INSTRUMENT AND FIXTURES

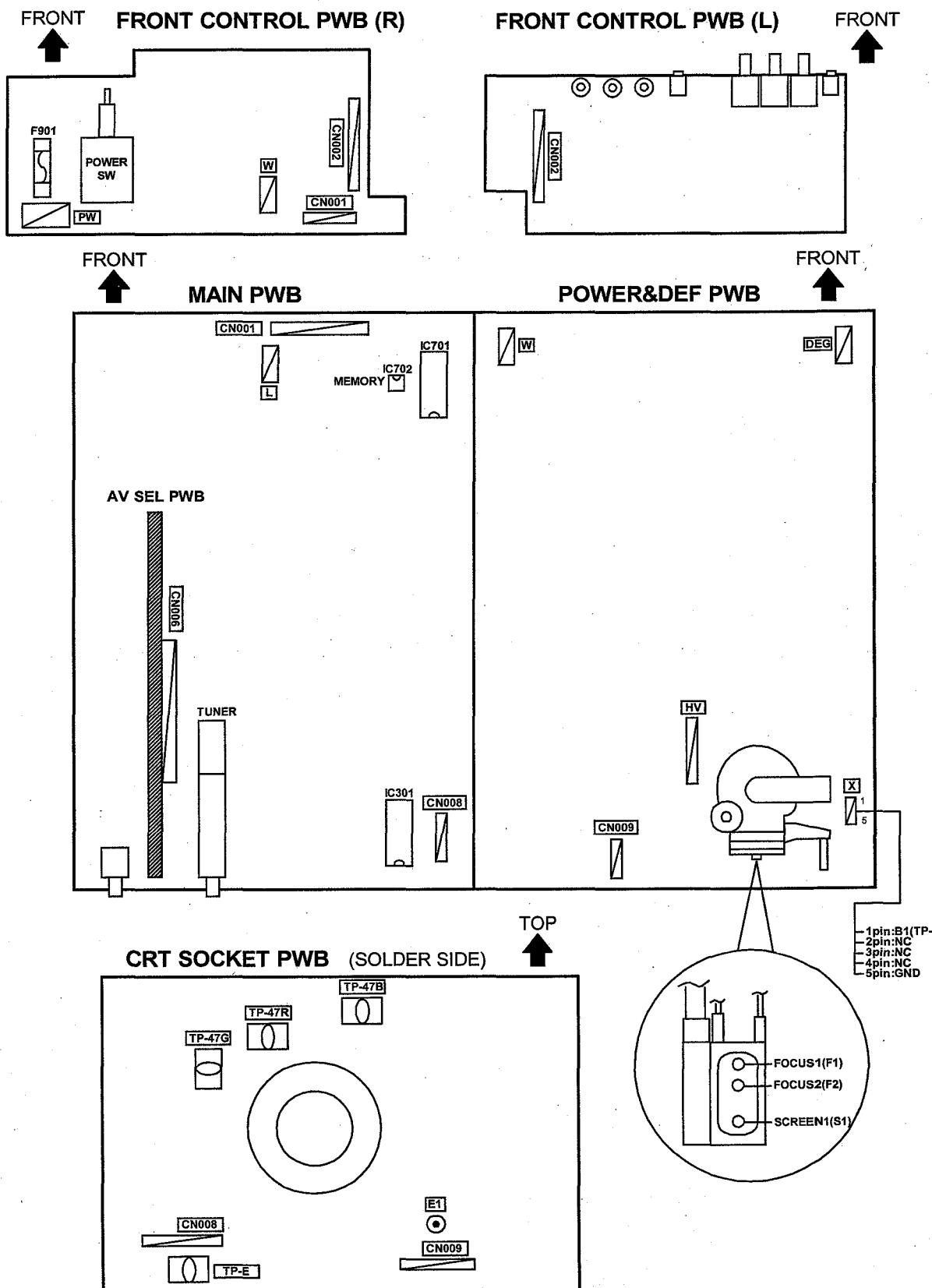
1. DC voltmeter (or digital voltmeter)
2. Oscilloscope
3. Signal generator (Pattern generator) [PAL / SECAM / NTSC]
4. Remote control unit

## ADJUSTMENT ITEMS

- B1 power supply check.
- Adjustment of FOCUS.
- IF circuit adjustment.
- VSM preset adjust setting.
- VIDEO / CHROMA circuit adjustment.
- DEFLECTION circuit adjustment.
- H. BLANKING ADJUSTMENT.
- AUDIO circuit adjustment. (Do not adjust)

AV-28WFT1EPG AV-28WFT1EIS  
 AV-28WFT1EPS AV-32WFT1EPG  
 AV-28WFT1EKS AV-32WFT1EPS  
 AV-28WFT1EK AV-32WFT1EKS

## ADJUSTMENT LOCATIONS



AV-28WFT1EPG AV-28WFT1EIS  
 AV-28WFT1EPS AV-32WFT1EPG  
 AV-28WFT1EKS AV-32WFT1EPS  
 AV-28WFT1EK AV-32WFT1EKS

## BASIC OPERATION SERVICE MENU

### 1. TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

### 2. SERVICE MENU ITEMS

With the SERVICE MENU, various settings (adjustments) can be made, and they are broadly classified in the following items of settings (adjustments):

- (1) 1. IF ..... This mode adjusts the setting values of the IF circuit.
- (2) 2.V/C ..... This mode adjusts the setting values of the VIDEO / CHROMA circuit.
- (3) 3.AUDIO ..... This mode adjusts the setting values of the multiplicity SOUND circuit.
- (4) 4.DEF ..... This mode adjusts the setting values of the DEFLECTION circuit for each aspect mode given below.

REGULAR	(50/60Hz)
PANORAMIC	(50/60Hz)
14:9 ZOOM	(50/60Hz)
16:9 ZOOM	(50/60Hz)
16:9 ZOOM SUB TITLE	(50/60Hz)
FULL	(50/60Hz)

- (5) 5.VSM PRSET ..... This mode adjusts the initial setting values of COOL, NORMA and WARM.  
(VSM : Video Status Memory)

- (6) 6.VPS ..... This mode shows the monitor of the VPS and PDC. **(Do not adjust)**.  
(VPS : Video Program System, PDC : Program Delivery Code)

- (7) 7.AUTO PROGRAM ..... By turning the power switch on, you can get the state of AUTO PROGRAM. **(Do not adjust)**

### 3. BASIC OPERATION OF SERVICE MENU

#### (1) How to enter SERVICE MENU

Press the INFORMATION key and the MUTING key of the REMOTE CONTROL UNIT simultaneously, and the SERVICE MENU screen of Fig. 1 will be displayed.

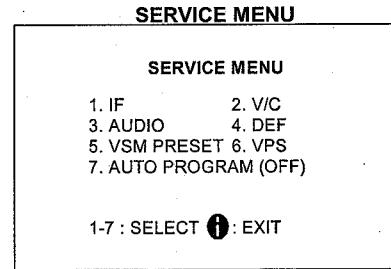


Fig.1

#### (2) Selection of SUB MENU SCREEN

Press one of keys 1~7 of the REMOTE CONTROL UNIT and select the SUB MENU SCREEN (See Fig. 3), form the SERVICE MENU.

SERVICE MENU → SUB MENU

- 1. IF
- 2. V / C
- 3. AUDIO
- 4. DEF.
- 5. VSM PRESET
- 6. VPS
- 7. AUTO PROGRAM

NAME OF REMOTE CONTROL KEY	
Names of key	key
INFORMATION	①
MUTING	✖
MENU	OK
FUNCTION UP/DOWN	▲▼
FUNCTION -/+	◀▶

Fig.2

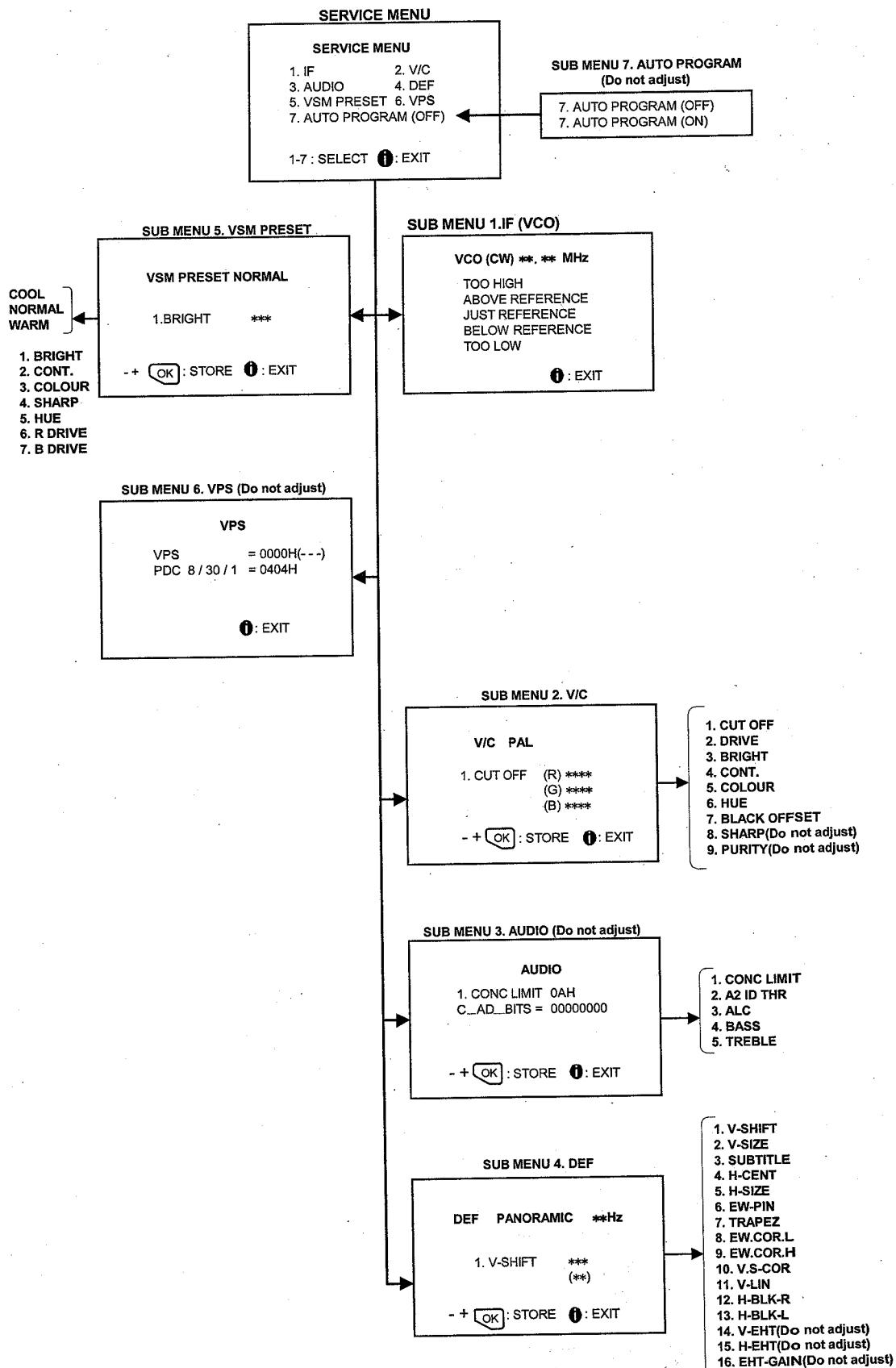


Fig. 3 SUB MENU SCREEN

AV-28WFT1EPG AV-28WFT1EIS  
AV-28WFT1EPS AV-32WFT1EPG  
AV-28WFT1EKS AV-32WFT1EPS  
AV-28WFT1EK AV-32WFT1EKS

**(3) Method of Setting**

1) Method of Setting 1.IF

[VCO]

- ① 1 Key ..... Select 1.IF.
- ② The VCO (CW) screen will be displayed in yellow when the AFC voltage is at a certain level and in blue when it is at other levels.
- ③ INFORMATION Key ..... Return to the SERVICE MENU screen.

2) Method of setting 2.V/C, 3.AUDIO, 4.DEF and 5.VSM PRESET.

- ① 2~5 Key ..... Select one from 2. V/C, 3. AUDIO, 4. DEF and 5. VSM PRESET.
- ② FUNCTION UP/DOWN Key ..... Select setting items.
- ③ FUNCTION -/+ ..... Set (adjust) the setting values of the setting items.  
(Use the number keys of the REMOTE CONTROL UNIT for setting of WHITE BALANCE.  
For the setting, refer to each item concerned.)
- ④ MENU Key ..... Memorize the setting value.  
(Before storing the setting values in memory, do not press the CH, TV, POWER ON / OFF key -  
if you do, the values will not be stored in memory.)
- ⑤ INFORMATION Key ..... Return to the SERVICE MENU screen.

3) Method of setting 6.VPS and 7.AUTO PROGRAM.

6.VPS ..... This mode displayed monitor of VPS systems. (**Do not adjust**)

7.AUTO PROGRAM ..... When the MAIN POWER is turned on with the state of AUTO PROGRAM ON, you get a mode that initializes every existing set value including language selection. Because this mode is set at the factory upon completion of the adjustment, you need not to use it for service. (**Do not adjust in this mode.**)

**(4) Release of SERVICE MENU**

- 1) After completing the setting, return to the SERVICE MENU, then again press the INFORMATION key.

## ADJUSTMENTS

### B1 POWER SUPPLY CHECK

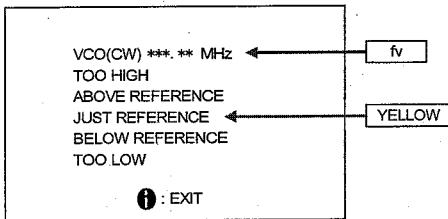
Item	Measuring instrument	Test point	Adjustment part	Description
Check of B1 Power Supply	Signal Generator DC voltmeter	TP-91(B1) TP-E(↓) [CN009 on POWER DEF PWB]		<ol style="list-style-type: none"> <li>1. Receive a any broadcast.</li> <li>2. Push the "ZOOM" key and select the FULL mode.</li> <li>3. Select 2. V/C from the SERVICE MENU.</li> <li>4. Select 1. CUT OFF with Function UP / DOWN key.</li> <li>5. Show one horizontal line with the 1 key.</li> <li>6. Turn the SCREEN VR, the whole black screen display.</li> <li>7. Connect a DC voltmeter to TP-91(B1) and TP-E(↓).</li> <li>8. Make sure that the voltage is DC144.5 ±2.0V.</li> <li>9. Readjust the SCREEN VR to appear the horizontal line faintly, and cancell the horizontal line to press the 2 key.</li> </ol>
Check of High Voltage	Signal Generator DC voltmeter			<ol style="list-style-type: none"> <li>1. Receive a any broadcast.</li> <li>2. Push the "ZOOM" key and select the FULL mode.</li> <li>3. Select 2. V/C from the SERVICE MENU.</li> <li>4. Select 1. CUT OFF with Function UP / DOWN key.</li> <li>5. Show one horizontal line with the 1 key.</li> <li>6. Turn the SCREEN VR, the whole black screen display.</li> <li>7. Connect a DC voltmeter to CRT ANODE.</li> <li>8. Make sure that the voltage is DC 31.0kV +1kV -1.5kV.</li> <li>9. Readjust the SCREEN VR to appear the horizontal line faintly, and connect the horizontal line to press 2 key.</li> </ol>

### ADJUSTMENT OF FOCUS

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of FOCUS	Signal generator		FOCUS 1 FOCUS 2 [In FBT]	<ol style="list-style-type: none"> <li>1. Receive a cross-hatch signal. Select FULL mode.</li> <li>2. By turning the FOCUS 2 VR, adjust the picture so that the 5th vertical line from the left side of the cross-hatch picture becomes thinnest.</li> <li>3. By turning the FOCUS 1 VR, adjust the picture so that the 3th horizontal line from the upper may become uniform at the line center and its periphery.</li> <li>4. Carry out adjustment by repeating the steps 2 and 3 above.</li> <li>5. Make sure that when the screen is darkened, the lines remain in good focus.</li> </ol>

AV-28WFT1EPG AV-28WFT1EIS  
 AV-28WFT1EPS AV-32WFT1EPG  
 AV-28WFT1EKS AV-32WFT1EPS  
 AV-28WFT1EK AV-32WFT1EKS

### IF CIRCUIT ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of VCO	Remote control unit			<ul style="list-style-type: none"> <li>Under normal conditions, no adjustment is required.</li> <li>1. Receive any broadcast.</li> <li>2. Select 1.IF from the SERVICE MENU.</li> <li>3. Check the characters colour of the JUST REFERENCE displayed to yellow.</li> </ul> 

### VSM PRESET ADJUST SETTING

Item	Measuring instrument	Test point	Adjustment part	Description																																
Setting of VSM PRESET	Remote control unit		1. BRIGHT 2. CONT. 3. COLOUR 4. SHARP 5. HUE 6. R DRIVE 7. B DRIVE	<ol style="list-style-type: none"> <li>Select 5.VSM PRESET from the SERVICE MENU.</li> <li>Select COOL with the MENU key of the remote control unit.</li> <li>Adjust the FUNCTION UP/DOWN and -/+ key to bring the set values of 1.BRIGHT ~ 7. B DRIVE to the values shown in the table.</li> <li>Press the MENU key and memorize the set value.</li> <li>Respectively select the VSM PRESET mode for NORMAL and WARM, and make similar adjustment as in 3 above.</li> <li>Press the MENU key and memorize the set value.</li> </ol> <p>* Refer to OPERATING INSTRUCTIONS for the PICTURE MODE.</p> <table border="1" data-bbox="584 1256 1282 1854"> <thead> <tr> <th>Setting item \ VSM preset mode</th> <th>COOL</th> <th>NORMAL</th> <th>WARM</th> </tr> </thead> <tbody> <tr> <td>1. BRIGHT SETTING VALUE</td> <td>+0</td> <td>+0</td> <td>+0</td> </tr> <tr> <td>2. CONT. SETTING VALUE</td> <td>+12</td> <td>+10</td> <td>+2</td> </tr> <tr> <td>3. COLOUR SETTING VALUE</td> <td>+6</td> <td>+0</td> <td>-2</td> </tr> <tr> <td>4. SHARP SETTING VALUE</td> <td>+0</td> <td>+0</td> <td>-2</td> </tr> <tr> <td>5. HUE SETTING VALUE</td> <td>+0</td> <td>+0</td> <td>+0</td> </tr> <tr> <td>6. R DRIVE SETTING VALUE</td> <td>-20</td> <td>+0</td> <td>+16</td> </tr> <tr> <td>7. B DRIVE SETTING VALUE</td> <td>+23</td> <td>+0</td> <td>-13</td> </tr> </tbody> </table> <p>SETTING VALUES OF VSM PRESET</p>	Setting item \ VSM preset mode	COOL	NORMAL	WARM	1. BRIGHT SETTING VALUE	+0	+0	+0	2. CONT. SETTING VALUE	+12	+10	+2	3. COLOUR SETTING VALUE	+6	+0	-2	4. SHARP SETTING VALUE	+0	+0	-2	5. HUE SETTING VALUE	+0	+0	+0	6. R DRIVE SETTING VALUE	-20	+0	+16	7. B DRIVE SETTING VALUE	+23	+0	-13
Setting item \ VSM preset mode	COOL	NORMAL	WARM																																	
1. BRIGHT SETTING VALUE	+0	+0	+0																																	
2. CONT. SETTING VALUE	+12	+10	+2																																	
3. COLOUR SETTING VALUE	+6	+0	-2																																	
4. SHARP SETTING VALUE	+0	+0	-2																																	
5. HUE SETTING VALUE	+0	+0	+0																																	
6. R DRIVE SETTING VALUE	-20	+0	+16																																	
7. B DRIVE SETTING VALUE	+23	+0	-13																																	

## VIDEO / CHROMA CIRCUIT ADJUSTMENT

The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values.  
 The setting values which adjust the screen to the optimum condition can be different from the initial setting values.

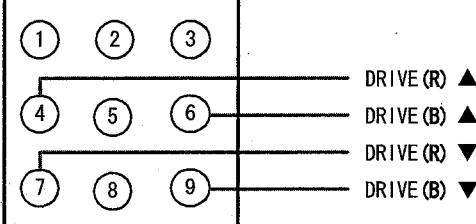
Setting Item (Adjustment Item)		Initial setting value
1.CUTOFF	R	-100
	G	-100
	B	-100
2.DRIVE	R	+0
	B	+0
3.BRIGHT		+0
4.CONT.		-10

Setting item	Colour system		
	PAL	SECAM	NTSC 3.58 NTSC 4.43
5.COLOUR	+14	+0	+8
6.HUE	—	—	+2
7. BLACK OFFSET (SECAM)	R-Y	—	+0
	B-Y	—	+0
8.SHARP (Do not adjust)	-20	←	←
9.PURITY (Do not adjust)	OFF	←	←

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of WHITE BALANCE (Low Light)	Signal generator Remote control unit		1.CUT OFF  (R)*** (G)*** (B)***  SCREEN VR [In FBT]	<ul style="list-style-type: none"> <li>Set the PICTURE MODE to NORMAL.</li> </ul> <ol style="list-style-type: none"> <li>Receive a black and white signal (colour off).</li> <li>Select 2. V/C from the SERVICE MENU.</li> <li>Select 1.CUT OFF with the FUNCTION UP/DOWN key.</li> <li>Push the "ZOOM" key and select the "PANORAMIC" mode.</li> <li>Show one horizontal line with the 1 key.</li> <li>Gradually turn the SCREEN VR from the left end to the right direction to bring one of the red, green or blue colour faintly visible.</li> <li>Press 4~9 key, and bring out the other 2 colours and make one horizontal line visible in white.</li> <li>Turn the SCREEN VR and bring one white horizontal line faintly visible.</li> <li>Press 2 key, turn off 1.CUT OFF screen.</li> <li>Press the MENU key and memorize the set value.</li> </ol>

Remote Control Unit

AV-28WFT1EPG AV-28WFT1EIS  
 AV-28WFT1EPS AV-32WFT1EPG  
 AV-28WFT1EKS AV-32WFT1EPS  
 AV-28WFT1EK AV-32WFT1EKS

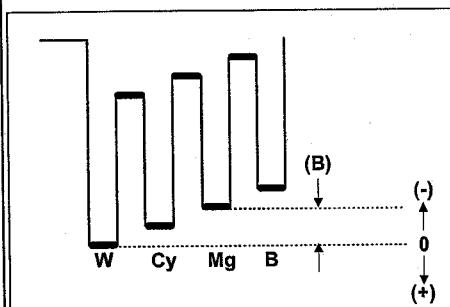
Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of WHITE BALANCE (High Light)	Signal generator Remote control unit		2.DRIVE (R) * * * (B) * * *	<ul style="list-style-type: none"> <li>The adjustment for Low Light WHITE BALANCE Should be finished.</li> <li>Set the PICTURE MODE to NORMAL.</li> <li>1. Receive a black and white signal (colour off).</li> <li>2. Select 2.V/C from the SERVICE MENU.</li> <li>3. Select 2.DRIVE with the FUNCTION UP/DOWN key.</li> <li>4. Change the screen colour to white with 4 key or 7 key (Drive of Red), 6 key or 9 key (Drive of Blue).</li> <li>5. Press the MENU key, and memorize the set values.</li> </ul> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <b>REMOTE CONTROL UNIT</b>  </div>
Adjustment of SUB BRIGHT	Remote control unit		3.BRIGHT	<ol style="list-style-type: none"> <li>Receive any broadcast.</li> <li>Select 2.V/C from the SERVICE MENU.</li> <li>Select 3.BRIGHT with the FUNCTION UP/DOWN key.</li> <li>Set the initial setting value with the FUNCTION -/+ key.</li> <li>If the brightness is not the best with the initial setting value, make fine adjustment until you get the best brightness.</li> <li>Press the MENU key and memorize the set value.</li> </ol>
Adjustment of SUB CONT.	Remote control unit		4.CONT.	<ol style="list-style-type: none"> <li>Receive any broadcast.</li> <li>Select 2.V/C from the SERVICE MENU.</li> <li>Select 4.CONT with the FUNCTION UP/DOWN key.</li> <li>Set the initial setting value with the FUNCTION - or + key.</li> <li>If the contrast is not the best with the initial setting value, make fine adjustment until you get the best contrast.</li> <li>Press the MENU key and memorize the set value.</li> </ol>

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB COLOUR I	Remote control unit		5.COLOUR (PAL~NTSC)	[Method of adjustment without measuring instrument]
			PAL COLOUR	<p>(PAL COLOUR)</p> <ol style="list-style-type: none"> <li>1. Receive PAL broadcast.</li> <li>2. Select 2.V/C from the SERVICE MENU.</li> <li>3. Select 5.COLOUR with the FUNCTION UP/DOWN key.</li> <li>4. Set the initial setting value for PAL COLOUR with the FUNCTION - or + key.</li> <li>5. If the colour is not the best with the initial set value, make fine adjustment until you get the best colour.</li> <li>6. Press the MENU key and memorize the set value.</li> </ol>
			SECAM COLOUR Only AV-28WFT1EPG AV-28WFT1EPS AV-32WFT1EPG AV-32WFT1EPS	<p>(SECAM COLOUR)</p> <ol style="list-style-type: none"> <li>1. Receive a SECAM broadcast.</li> <li>2. Make fine adjustment of SECAM COLOUR in the same manner as for above.</li> </ol>
			NTSC COLOUR	<p>(NTSC 3.58 COLOUR)</p> <ol style="list-style-type: none"> <li>1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal from the EXT terminal.</li> <li>2. Make similar fine adjustment of NTSC 3.58 COLOUR in the same manner as for above.</li> </ol>
				<p>(NTSC 4.43 COLOUR)</p> <ol style="list-style-type: none"> <li>1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.</li> </ol>

AV-28WFT1EPG AV-28WFT1EIS  
 AV-28WFT1EPS AV-32WFT1EPG  
 AV-28WFT1EKS AV-32WFT1EPS  
 AV-28WFT1EK AV-32WFT1EKS

Item	Measuring instrument	Test point	Adjustment part	Description								
Adjustment of SUB COLOUR II	Signal generator	TP-47B TP-E(↙) [CRT SOCKET PWB]	5.COLOUR (PAL~NTSC)	[Method of adjustment using measuring instrument]								
	Oscilloscope		PAL COLOUR	(PAL COLOUR) <ol style="list-style-type: none"> <li>1. Receive a PAL full field colour bar signal (75% white).</li> <li>2. Select 2.V/C from the SERVICE MENU.</li> <li>3. Select 5.COLOUR with the FUNCTION UP/DOWN key.</li> <li>4. Set the initial setting value of PAL COLOUR with the FUNCTION - or + key.</li> <li>5. Connect the oscilloscope between TP-47B and TP-E(↙).</li> <li>6. Adjust PAL COLOUR and bring the value of (A) in the illustration to the values as shown given below (Voltage difference between white (W) and blue (B)).</li> <li>7. Press the MENU key and memorize the setting value.</li> </ol> <table border="1"> <thead> <tr> <th>MODEL</th><th>VOLTAGE (W-B)</th></tr> </thead> <tbody> <tr> <td>28" model</td><td>+2V</td></tr> <tr> <td>32" model</td><td>EKS -2V</td></tr> <tr> <td></td><td>EPS/EPG +4V</td></tr> </tbody> </table>	MODEL	VOLTAGE (W-B)	28" model	+2V	32" model	EKS -2V		EPS/EPG +4V
MODEL	VOLTAGE (W-B)											
28" model	+2V											
32" model	EKS -2V											
	EPS/EPG +4V											
	Remote control unit		SECAM COLOUR Only (AV-28WFT1EPG AV-28WFT1EPS AV-32WFT1EPG AV-32WFT1EPS)	(SECAM COLOUR) <ol style="list-style-type: none"> <li>1. Receive a SECAM full field colour bar signal (75% white).</li> <li>2. Set the initial setting value of SECAM COLOUR with the FUNCTION -/+ key.</li> <li>3. Adjust SECAM COLOUR and bring the value of (A) in the illustration to the values as shown given below (Voltage difference between white (W) and blue (B)).</li> <li>4. Press the MENU key and memorize the setting value.</li> </ol> <table border="1"> <thead> <tr> <th>MODEL</th><th>VOLTAGE (W-B)</th></tr> </thead> <tbody> <tr> <td>28" model</td><td>-5V</td></tr> <tr> <td>32" model</td><td>+0V</td></tr> </tbody> </table>	MODEL	VOLTAGE (W-B)	28" model	-5V	32" model	+0V		
MODEL	VOLTAGE (W-B)											
28" model	-5V											
32" model	+0V											
			NTSC COLOUR	(NTSC 3.58 COLOUR) <ol style="list-style-type: none"> <li>1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal.</li> <li>2. Set the initial setting value of NTSC 3.58 COLOUR with the FUNCTION -/+ key.</li> <li>3. Adjust NTSC 3.58 COLOUR and bring the value of (A) of the illustration to +1V w-b.</li> <li>4. Press the MENU key and memorize the setting value.</li> </ol> <p>(NTSC 4.43 COLOUR)  <ol style="list-style-type: none"> <li>1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.</li> </ol> </p>								

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB HUE I	Remote control unit		6.HUE	[Method of adjustment without measuring instrument]
			NTSC 3.58 HUE	[NTSC 3.58 HUE] <ol style="list-style-type: none"> <li>1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal.</li> <li>2. Select 2.V/C from the SERVICE MENU.</li> <li>3. Select 6. HUE with the FUNCTION UP/DOWN key.</li> <li>4. Set the initial setting value of NTSC 3.58 HUE with the FUNCTION -/+ key.</li> <li>5. If you cannot get the best tint with the initial setting value, make fine adjustment until you get the best tint.</li> <li>6. Press the MENU key and memorize the set value.</li> </ol>
			NTSC 4.43 HUE	[NTSC 4.43 HUE] <ol style="list-style-type: none"> <li>1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.</li> </ol>
Adjustment of SUB HUE II	Signal generator Oscilloscope Remote control unit	TP-47B TP-E(↔) [CRT SOCKET PWB]	6. HUE	[Method of adjustment using measuring instrument]
			NTSC 3.58 HUE	[NTSC 3.58 HUE] <ol style="list-style-type: none"> <li>1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal.</li> <li>2. Select 2.V/C from the SERVICE MENU.</li> <li>3. Select 6. HUE with the FUNCTION UP/DOWN key.</li> <li>4. Set the initial setting value of NTSC 3.58 HUE with the FUNCTION - or + key.</li> <li>5. Connect the oscilloscope between TP-47B and TP-E(↔).</li> <li>6. Adjust NTSC 3.58 HUE to bring the value of (B) in the illustration to -3V (voltage difference between white (W) and magenta (Mg)).</li> <li>7. Press the MENU key and memorize the setting value</li> </ol>
			NTSC 4.43 HUE	[NTSC 4.43 HUE] <ol style="list-style-type: none"> <li>1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.</li> </ol>



## [Only AV-28WFT1EPS / AV-32WFT1EPS / AV-28WFT1EPG / AV-32WFT1EPG]

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of BLACK OFFSET (SECAM) I	Remote control unit		7. BLACK OFFSET (R-Y) *** (B-Y) ***	<p>[Method of adjustment without measuring instrument]</p> <ol style="list-style-type: none"> <li>1. Receive a SECAM broadcast.</li> <li>2. Select 2. V/C from SERVICE MENU.</li> <li>3. Select 7. BLACK OFFSET with the FUNCTION UP/DOWN key.</li> <li>4. Set the initial setting value for BLACK OFFSET (R-Y) and (B-Y) with <b>4</b> and <b>7</b> or <b>6</b> and <b>9</b> keys of the remote control.</li> <li>5. If the picture is not the best with the initial setting value, make fine adjustment until you get the best picture.</li> <li>6. Press the MENU key and memorize the setting value.</li> </ol>
		REMOTE CONTROL UNIT		
Adjustment of BLACK OFFSET (SECAM) II	Signal generator Oscilloscope Remote control unit	35 PIN (R-Y) 36 PIN (B-Y) IC-301 ON MAIN PWB	7. BLACK OFFSET (R-Y) *** (B-Y) ***	<p>[Method of adjustment using measuring instrument]</p> <ol style="list-style-type: none"> <li>1. Receive a SECAM COLOUR bar signal (full field colour bar 75% white).</li> <li>2. Select 2. V/C from SERVICE MENU.</li> <li>3. Select 7. BLACK OFFSET with the FUNCTION UP/DOWN key.</li> <li>4. Connect the oscilloscope between 35 pin of IC-301 and TP-E (↔).</li> <li>5. By using <b>4</b> and <b>7</b> keys of the remote control, adjust the BLACK OFFSET (R-Y) so that it becomes the waveform changes from (a) to (b) shown in the figure.</li> <li>6. Connect the oscilloscope between 36 pin of IC-301 and TP-E.</li> <li>7. By using <b>6</b> and <b>9</b> keys of the remote control, adjust the BLACK OFFSET (B-Y) so that it becomes the waveform changes from (c) to (d) shown in the figure.</li> <li>8. If the picture is not the best with the adjusted picture, make fine adjustment until you get the best picture.</li> <li>9. Press the MENU key and memorize the setting value.</li> </ol>
		[R-Y]		
		[B-Y]		

## DEFLECTION CIRCUIT ADJUSTMENT

There are 7 modes of the adjustment ( 1 ) 50Hz mode ( ①PANORAMIC ②FULL ③REGULAR ④14:9 ZOOM ⑤16:9 ZOOM ⑥16:9 ZOOM SUB TITLE ), ( 2 ) 60Hz mode ( each aspect mode ) ..... depending upon the kind of signals ( vertical frequency 50Hz / 60Hz ).

- The adjustment using the remote control unit is made on the basis of the initial setting values.
- When the 50Hz PANORAMIC mode has been established, the setting of other modes will be done automatically. However, if the picture quality has not been optimized, adjust each mode again, respectively.
- The setting values which adjust the screen to the optimum condition can be different from the initial setting values.

### Initial setting value (1/2) 28" model

Setting item	Adjustment name	Initial setting value							
		PANORAMIC		14:9 ZOOM		16:9 ZOOM		16:9 ZOOM SUB TITLE	
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
1. V-SHIFT	Vertical center	-8	-2	+0	+1	+0	+2	+0	+2
2. V-SIZE	Vertical height	+13	-3	+13	+13	+35	+39	+35	+39
3. SUBTITLE	SUBTITLE BOTTOM Vertical Linearity	-8	+0	+0	+0	+0	+0	+12	+13
4. H-CENT	Horizontal center	-11	+4	+1	+0	-1	+0	-1	+0
5. H-SIZE	Horizontal width	+4	+0	-8	-8	-7	-6	-7	-6
6. EW-PIN	Side pin correction	+9	-1	-1	+0	-4	-2	-4	-2
7. TRAPEZ	Trapezoidal distortion correction	-2	+0	+0	+0	+0	+0	+0	+0
8. EW.COR.L	CORNER PIN correction Low side	-2	+0	+0	+0	+0	+0	+0	+0
9. EW.COR.H	CORNER PIN correction High side	+0	+1	+0	+0	+2	-2	+2	-2
10. V.S-COR	Vertical height correction	-15	-1	-17	-17	-17	-17	-17	-17
11. V-LIN	Vertical Linearity	-4	-3	+0	+3	-2	+4	-2	+4
12. H-BLK-R	BLANKING POSITION of Right side	+0	+0	+99	+99	+0	+0	+0	+0
13. H-BLK-L	BLANKING POSITION of Left side	+0	+0	+1	+1	+0	+0	+0	+0
14. V-EHT (Do not adjust)	V size correction level caused by EHT change	-2	+0	+0	+0	+0	+0	+0	+0
15. H-EHT (Do not adjust)	H size correction level caused by EHT change	-3	+0	+0	+0	+0	+0	+0	+0
16. EHT-GAIN (Do not adjust)	Size correction gain caused by EHT change	+0	+0	+0	+0	+0	+0	+0	+0

### Initial setting value (2/2)

Setting item	Adjustment name	Initial setting value			
		FULL		REGULAR	
		50Hz	60Hz	50Hz	60Hz
1. V-SHIFT	Vertical center	+1	+1	+1	+1
2. V-SIZE	Vertical height	-8	-7	-7	-3
3. SUBTITLE	SUBTITLE BOTTOM Vertical Linearity	+0	+0	+0	+0
4. H-CENT	Horizontal center	-1	+0	+2	+0
5. H-SIZE	Horizontal width	-7	-6	-17	-18
6. EW-PIN	Side pin correction	+0	-1	-3	+0
7. TRAPEZ	Trapezoidal distortion correction	+2	+0	+4	+3
8. EW.COR.L	CORNER PIN correction Low side	+0	+0	+0	+0
9. EW.COR.H	CORNER PIN correction High side	+0	+0	+0	+0
10. V.S-COR	Vertical height correction	-17	-17	-17	-17
11. V-LIN	Vertical Linearity	+2	+3	+4	+1
12. H-BLK-R	BLANKING POSITION of Right side	+0	+0	+99	+99
13. H-BLK-L	BLANKING POSITION of Left side	+0	+0	+1	+1
14. V-EHT (Do not adjust)	Vsize correction level caused by EHT change	+0	+0	+0	+0
15. H-EHT (Do not adjust)	Hsize correction level caused by EHT change	+0	+0	+0	+0
16. EHT-GAIN (Do not adjust)	Size correction gain caused by EHT change	+0	+0	+0	+0

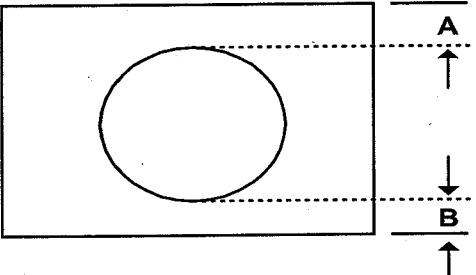
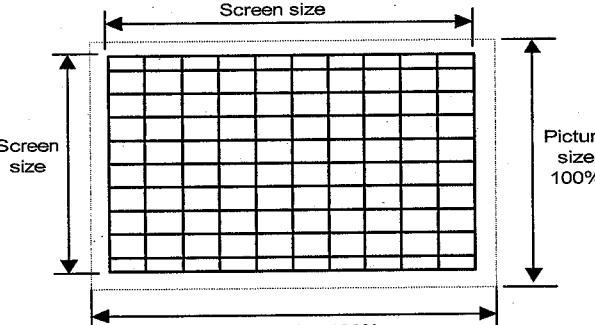
AV-32WFT1EPG  
AV-32WFT1EPS  
AV-32WFT1EKS

**Initial setting value (1/2) 32" model**

Setting item	Adjustment name	Initial setting value							
		PANORAMIC		14:9 ZOOM		16:9 ZOOM		16:9 ZOOM SUB TITLE	
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
1. V-SHIFT	Vertical center	-10	+0	+0	+0	+0	+0	+0	+0
2. V-SIZE	Vertical height	+3	+6	+11	+5	+31	+22	+31	+22
3. SUBTITLE	SUBTITLE BOTTOM Vertical Linearity	-8	+0	+0	+0	+0	+0	+12	+3
4. H-CENT	Horizontal center	-15	+0	+0	+0	+0	+0	+0	+0
5. H-SIZE	Horizontal width	+4	+0	-9	-9	-5	-5	-5	-5
6. EW-PIN	Side pin correction	+9	+4	-3	-4	-2	-6	-2	-6
7. TRAPEZ	Trapezoidal distortion correction	-1	+0	+0	-3	-2	-3	-2	-3
8. EW.COR.L	CORNER PIN correction Low side	+0	+0	+0	+0	+0	+0	+0	+0
9. EW.COR.H	CORNER PIN correction High side	+1	+0	+0	+0	+0	+0	+0	+0
10. V.S-COR	Vertical height correction	-15	+0	-17	-17	-17	-17	-17	-17
11. V-LIN	Vertical Linearity	-3	+0	+4	+0	-1	+0	-1	+0
12. H-BLK-R	BLANKING POSITION of Right side	+0	+0	+99	+99	+0	+0	+0	+0
13. H-BLK-L	BLANKING POSITION of Left side	+0	+0	+1	+1	+0	+0	+0	+0
14. V-EHT (Do not adjust)	Vsize correction level caused by EHT change	-2	+0	+0	+0	+0	+0	+0	+0
15. H-EHT (Do not adjust)	Hsize correction level caused by EHT change	-3	+0	+0	+0	+0	+0	+0	+0
16. EHT-GAIN (Do not adjust)	Size correction gain caused by EHT change	+0	+0	+0	+0	+0	+0	+0	+0

**Initial setting value (2/2)**

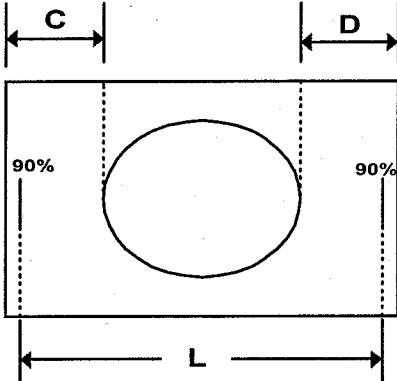
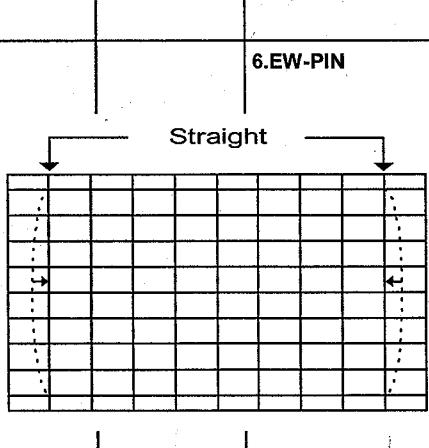
Setting item	Adjustment name	Initial setting value			
		FULL		REGULAR	
		50Hz	60Hz	50Hz	60Hz
1. V-SHIFT	Vertical center	+0	+0	+0	+0
2. V-SIZE	Vertical height	-11	-18	-9	-15
3. SUBTITLE	SUBTITLE BOTTOM Vertical Linearity	+0	+0	+0	+0
4. H-CENT	Horizontal center	+0	+0	+0	+0
5. H-SIZE	Horizontal width	-5	-5	-22	-22
6. EW-PIN	Side pin correction	-2	-2	-4	-6
7. TRAPEZ	Trapezoidal distortion correction	-1	-2	-2	-1
8. EW.COR.L	CORNER PIN correction Low side	+0	+0	+0	+0
9. EW.COR.H	CORNER PIN correction High side	+0	+0	+0	+0
10. V.S-COR	Vertical height correction	-17	-17	-17	-17
11. V-LIN	Vertical Linearity	+4	+1	+3	+0
12. H-BLK-R	BLANKING POSITION of Right side	+0	+0	+99	+99
13. H-BLK-L	BLANKING POSITION of Left side	+0	+0	+1	+1
14. V-EHT (Do not adjust)	Vsize correction level caused by EHT change	+0	+0	+0	+0
15. H-EHT (Do not adjust)	Hsize correction level caused by EHT change	+0	+0	+0	+0
16. EHT-GAIN (Do not adjust)	Size correction gain caused by EHT change	+0	+0	+0	+0

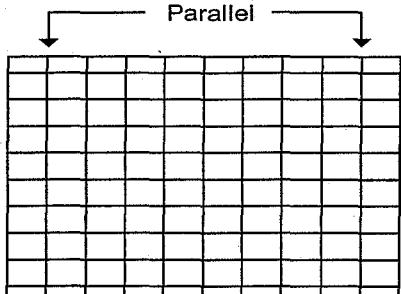
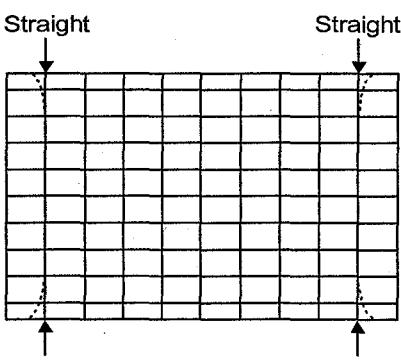
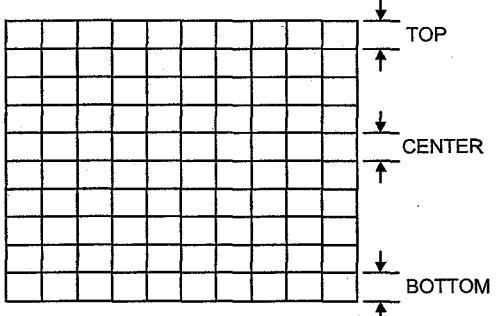
Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of V-SHIFT	Signal generator Remote control unit		1.V-SHIFT	<p>[50Hz PANORAMIC mode]</p> <ol style="list-style-type: none"> <li>1. Receive a circle pattern signal of vertical frequency 50Hz.</li> <li>2. Select 4.DEF from the SERVICE MENU.</li> <li>3. Select 1.V-SHIFT with the FUNCTION UP/DOWN key.</li> <li>4. Adjust V-SHIFT to make A = B.</li> <li>5. Press the MENU key and memorize the set value.</li> </ol> <p>* For JK chassis          Set all data except for "PANORAMIC" to "0".          Adjust V.CENTER of other aspects with "PANORAMIC" mode while also taking their positions into consideration. If you want to obtain horizontal lines with less noise on the screen, adjust V.LIN instead of "PANORAMIC" mode.</p> 
Adjustment of V-SIZE & SUBTITLE			2.V-SIZE 3.SUBTITLE	<ol style="list-style-type: none"> <li>6. Receive a cross-hatch signal.</li> <li>7. Select 2.V-SIZE and set the initial setting value.</li> <li>8. Adjust V-SIZE and make sure that the vertical screen size of the picture size is in the bellow table.</li> <li>9. Press the MENU key and memorize the set value.</li> <li>10. When adjust the [SUBTITLE], select "3.SUBTITLE" and adjust to under part of picture size.</li> <li>11. Input a NTSC VIDEO signal (60Hz) from the EXT terminal, and make sure that the vertical screen size is in the table below.</li> <li>12. Press the MENU key and memorize the set value.</li> </ol> 

ASPECT MODE	PANORAMIC	14:9 ZOOM	16:9 ZOOM	16:9 ZOOM SUBTITLE	FULL	REGULAR
SCREEN TOP	87%	80%	70%	70%	92%	92%
SCREEN BOTTOM	87%	80%	70%	83%	92%	92%

[ SCREEN SIZE ]

AV-28WFT1EPG AV-28WFT1EIS  
 AV-28WFT1EPS AV-32WFT1EPG  
 AV-28WFT1EKS AV-32WFT1EPS  
 AV-28WFT1EK AV-32WFT1EKS

Item	Measuring instrument	Test point	Adjustment part	Description																				
Adjustment of H.CENTER			4.H-CENT.	<p>13. Receive a circle pattern signal.    14. Select 4.H-CENT and set the initial setting value.    15. Adjust H-CENT to make C=D.    16. Press the MENU key and memorize the set value.</p> 																				
Adjustment of H.SIZE			5.H-SIZE	<p>17. Receive a circle pattern signal.    18. Select 5.H-SIZE and set the initial setting value.    19. Adjust H-SIZE and make sure that the horizontal screen size of the picture size is in the below table.    20. Press the MENU key and memorize the set value.</p> <p>※ The numeric of the REGULAR and 14:9 ZOOM modes are shown the length of the 90% horizontal size position( L ) as shown in the figure above.</p> <p>21. Input a NTSC VIDEO signal (60Hz) from the EXT terminal, and make sure that the horizontal screen size of the each ASPECT mode is in the below table.    22. Press the MENU key and memorize the set value.</p> <table border="1" data-bbox="71 1265 1325 1444"> <thead> <tr> <th>ASPECT MODE</th><th>PANORAMIC</th><th>14:9 ZOOM</th><th>16:9 ZOOM</th><th>16:9 ZOOM SUB TITLE</th><th>FULL</th><th>REGULAR</th></tr> </thead> <tbody> <tr> <td rowspan="2">H SIZE</td><td>32"</td><td>PAL=95% NTSC=94%</td><td>L=570mm</td><td>92%</td><td>92%</td><td>92% L=500mm</td></tr> <tr> <td>28"</td><td>PAL=95% NTSC=94%</td><td>L=495mm</td><td>92%</td><td>92%</td><td>L=440mm</td></tr> </tbody> </table> <p style="text-align: center;">[ SCREEN SIZE ]</p> 	ASPECT MODE	PANORAMIC	14:9 ZOOM	16:9 ZOOM	16:9 ZOOM SUB TITLE	FULL	REGULAR	H SIZE	32"	PAL=95% NTSC=94%	L=570mm	92%	92%	92% L=500mm	28"	PAL=95% NTSC=94%	L=495mm	92%	92%	L=440mm
ASPECT MODE	PANORAMIC	14:9 ZOOM	16:9 ZOOM	16:9 ZOOM SUB TITLE	FULL	REGULAR																		
H SIZE	32"	PAL=95% NTSC=94%	L=570mm	92%	92%	92% L=500mm																		
	28"	PAL=95% NTSC=94%	L=495mm	92%	92%	L=440mm																		

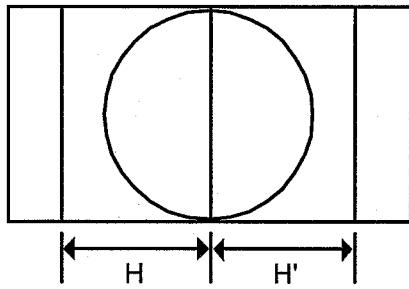
Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of TRAPEZ	Signal generator Remote control unit		7.TRAPEZ	<p>26. Receive a cross-hatch signal.          27. Select 7.TRAPEZ with the FUNCTION UP/DOWN key.          28. Set the initial setting value of TRAPEZ with the FUNCTION - or + key.          29. Adjust TRAPEZ and bring the VERTICAL lines at the right and left edges of the screen parallel.          30. Press the MENU key and memorize the set value.</p> 
Adjustment of EW. COR. L/H	Signal generator Remote control unit		8.EW. COR. L 9.EW. COR. H	<p>31. Select 8.EW. COR. L with the FUNCTION UP / DOWN key.          32. Set the initial setting value of EW. COR. L with the FUNCTION - or + key.          33. Adjust EW. COR. L, and bring the straight line at the low corner.          34. Select 9.EW. COR. H with the FUNCTION UP / DOWN key.          35. Set the initial setting value of EW. COR. H with the FUNCTION - or + key.          36. Adjust EW. COR. H, and bring the straight line at the upper corner.          37. Press the MENU key and memorize the set value.</p> 
Adjustment of V-S.CR & V.LINE			10. V-S.CR 11. V-LIN	<p>● When the vertical linearity has been deteriorated remarkably, perform the following steps.</p> <p>38. Receive a cross-hatch signal.          39. Select 11.V-LIN with the FUNCTION UP/DOWN key.          40. Set the initial setting value of 11.V-LIN with the FUNCTION - / + key.          41. Select 10.V-S.COR with the FUNCTION UP / DOWN key.          42. Set the initial setting value of 10.V-S.COR with the FUNCTION - / + key.          43. Adjust 11.V-LIN and 10.V-S.COR so that the spaces of each line on TOP, CENTER and BOTTOM become uniform.</p> <p>NOTE : Do not adjust "PANORAMIC" &amp; "16 : 9 ZOOM SUBTITLE" mode.          * For JK chassis          On account of CRT (ITC), set V-S.COR except for "PANORAMIC" mode to the minimum.          When adjusting "PANORAMIC" mode, slightly expand the space at the CENTER while taking the circularity at the CENTER into consideration.</p> 

AV-28WFT1EPG AV-28WFT1EIS  
 AV-28WFT1EPS AV-32WFT1EPG  
 AV-28WFT1EKS AV-32WFT1EPS  
 AV-28WFT1EK AV-32WFT1EKS

Item	Measuring instrument	Test point	Adjustment part	Description
				<p>At first the adjustment in 50Hz-PANORAMIC mode should be done, then the data for the other zoom mode is corrected in the respective value at the same time. And confirm the deflection adjustment initial setting value in 60Hz( NTSC EXT mode ) PANORAMIC mode. If the adjustment in 50Hz each zoom mode has been done and stored, the data for the same aspect modes in 60Hz is corrected in the respective value. Only the data for the other aspect mode in 60Hz is corrected for itself.</p>

## H. BLANKING ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of H.BLANKING			<b>H.BLK Capacitor</b> <b>[On MAIN PWB]</b>	<p>1. Receive the PAL circle pattern signal.</p> <p>2. Select 4.DEF from the SERVICE MENU.</p> <p>3. Select the aspect [14:9 ZOOM] mode.</p> <p>4. Choose 12.H-BLK-R with the FUNCTION UP/DOWN key and adjust H'-BLANKING so that 92% of the picture on the right side is displayed.</p> <p>5. Choose 13.H-BLK-L with the FUNCTION UP/DOWN key and adjust H-BLANKING so that 92% of the picture on the left side is displayed.</p> <p>6. Press the MENU key and memorize the set value.</p> <p>7. Select the aspect [REGULAR] mode.</p> <p>8. Choose 12.H-BLK-R with the FUNCTION UP/DOWN key and adjust H'.BLANKING so that 92% of the picture on the right side is displayed.</p> <p>9. Choose 13.H-BLK-L with the FUNCTION UP/DOWN key and adjust H-BLANKING so that 92% of the picture on the left side is displayed.</p> <p>10. Press the MENU key and memorize the set value.</p>



AV-28WFT1EPG AV-28WFT1EIS  
AV-28WFT1EPS AV-32WFT1EPG  
AV-28WFT1EKS AV-32WFT1EPS  
AV-28WFT1EK AV-32WFT1EKS

## AUDIO CIRCUIT ADJUSTMENT

- Do not touch 3.AUDIO(1. CONC LIMIT, 2. A2 ID THR, 3. ALC, 4. BASS, 5. TREBLE) of the SERVICE MENU as it requires no adjustment.

### 3. AUDIO

Setting item	Variable range	fixed value
1. CONC LIMIT( <i>Do not adjust</i> )	00H ~ FFH	0AH
2. A2 ID THR( <i>Do not adjust</i> )	00H ~ FFH	19H
3. ALC ( <i>Do not adjust</i> )	→ 20MSEC → 2SEC → 4SEC → 8SEC	_____
4. BASS ( <i>Do not adjust</i> )	-17 ~ +17	+0
5. TREBLE ( <i>Do not adjust</i> )	-17 ~ +17	+0

AV-28WFT1EPG AV-28WFT1EIS  
AV-28WFT1EPS AV-32WFT1EPG  
AV-28WFT1EKS AV-32WFT1EPS  
AV-28WFT1EK AV-32WFT1EKS

## REPLACEMENT OF CHIP COMPONENT

### ■ CAUTIONS

1. Avoid heating for more than 3 seconds.
2. Do not rub the electrodes and the resist parts of the pattern.
3. When removing a chip part, melt the solder adequately.
4. Do not reuse a chip part after removing it.

### ■ SOLDERING IRON

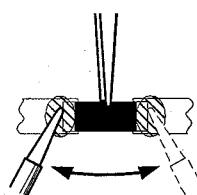
1. Use a high insulation soldering iron with a thin pointed end of it.
2. A 30w soldering iron is recommended for easily removing parts.

### ■ REPLACEMENT STEPS

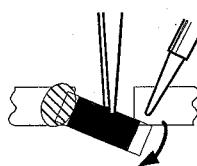
#### 1. How to remove Chip parts

##### ◆ Resistors, capacitors, etc

- (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



- (2) Shift with tweezers and remove the chip part.

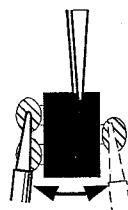


##### ◆ Transistors, diodes, variable resistors, etc

- (1) Apply extra solder to each lead.



- (2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.

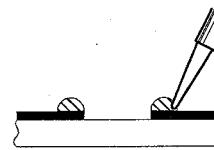


Note : After removing the part, remove remaining solder from the pattern.

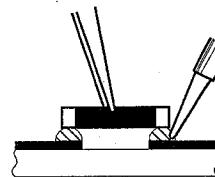
#### 2. How to install Chip parts

##### ◆ Resistors, capacitors, etc

- (1) Apply solder to the pattern as indicated in the figure.

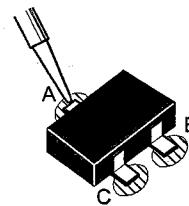


- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

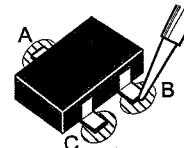


##### ◆ Transistors, diodes, variable resistors, etc

- (1) Apply solder to the pattern as indicated in the figure.
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead A as indicated in the figure.



- (4) Then solder leads B and C.



# PARTS LIST

## CAUTION

- The parts identified by the  $\Delta$  symbol are important for the safety. Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines — in the Parts No. columns will not be supplied.
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

## ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
H V R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
M F R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
M G R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
M P R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
O M R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
C M F R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
U N F R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
C H V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
C H M G R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
C O M P. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

## TOLERANCES

F	G	J	K	M	N	R	H	Z	P
$\pm 1\%$	$\pm 2\%$	$\pm 5\%$	$\pm 10\%$	$\pm 20\%$	$\pm 30\%$	+30% -10%	+50% -10%	+80% -20%	+100% -0%

AV-28WFT1EPG · AV-28WFT1EIS

AV-28WFT1EPS

AV-28WFT1EKS

AV-28WFT1EK

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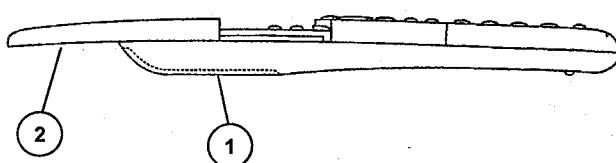
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## USING PW BOARD & REMOTE CONTROL UNIT

Model PWB ASS'Y	AV-28WFT1EPG	AV-28WFT1EPS	AV-28WFT1EIS	AV-28WFT1EKS	AV-28WFT1EK
MAIN PWB	SJK-1702A-U2	←	←	SJK-1902A-U2	←
POWER & DEF. PWB	SJK-2502A-U2	←	←	←	←
CRT SOCKET PWB	SJK-3502A-U2	←	←	←	←
FRONT CONTROL PWB	SJK-8502A-U2	←	←	←	←
AV SEL. PWB	SJK0S701A-U2	←	←	SJK0S901A-U2	←
REMOTE CONTROL UNIT	RM-C50-1C	←	RM-C51-1C	←	←

## REMOTE CONTROL UNIT PARTS LIST

△	Ref. No.	Part No.	Part Name	Description
1	2AA027770		BATTERY COVER	
2	2AA027761		SLIDE COVER	(RM-C50-1C)
2	2AA027762		SLIDE COVER	(RM-C51-1C)



## AV-32WFT1EPG / AV-32WFT1EPS / AV-32WFT1EKS

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### AV-32WFT1EKS

● MAIN PW BOARD ASS'Y .....	67
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● CRT SOCKET PW BOARD ASS'Y .....	69
● FRONT CONTROL PW BOARD ASS'Y .....	69
● AV SEL. PW BOARD ASS'Y .....	69

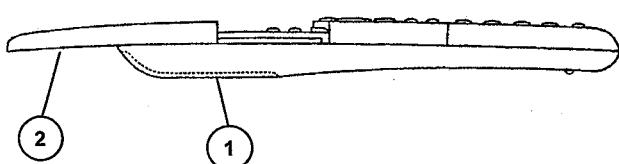
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## USING PW BOARD & REMOTE CONTROL UNIT

PWB ASS'Y	Model	AV-32WFT1EPG	AV-32WFT1EPS	AV-32WFT1EKS
MAIN PWB	SJK-1701A-U2	←	SJK-1901A-U2	
POWER & DEF. PWB	SJK-2501A-U2	←	←	
CRT SOCKET PWB	SJK-3501A-U2	←	←	
FRONT CONTROL PWB	SJK-8501A-U2	←	←	
AV SEL. PWB	SJK0S701A-U2	←	SJK0S901A-U2	
REMOTE CONTROL UNIT	RM-C50-1C	←	RM-C51-1C	

## REMOTE CONTROL UNIT PARTS LIST

▲ Ref. No.	Part No.	Part Name	Description
1	2AA027770	BATTERY COVER	
2	2AA027761	SLIDE COVER	(RM-C50-1C)
2	2AA027762	SLIDE COVER	(RM-C51-1C)



AV-28WFT1EPG AV-28WFT1EIS  
 AV-28WFT1EPS  
 AV-28WFT1EKS  
 AV-28WFT1EK

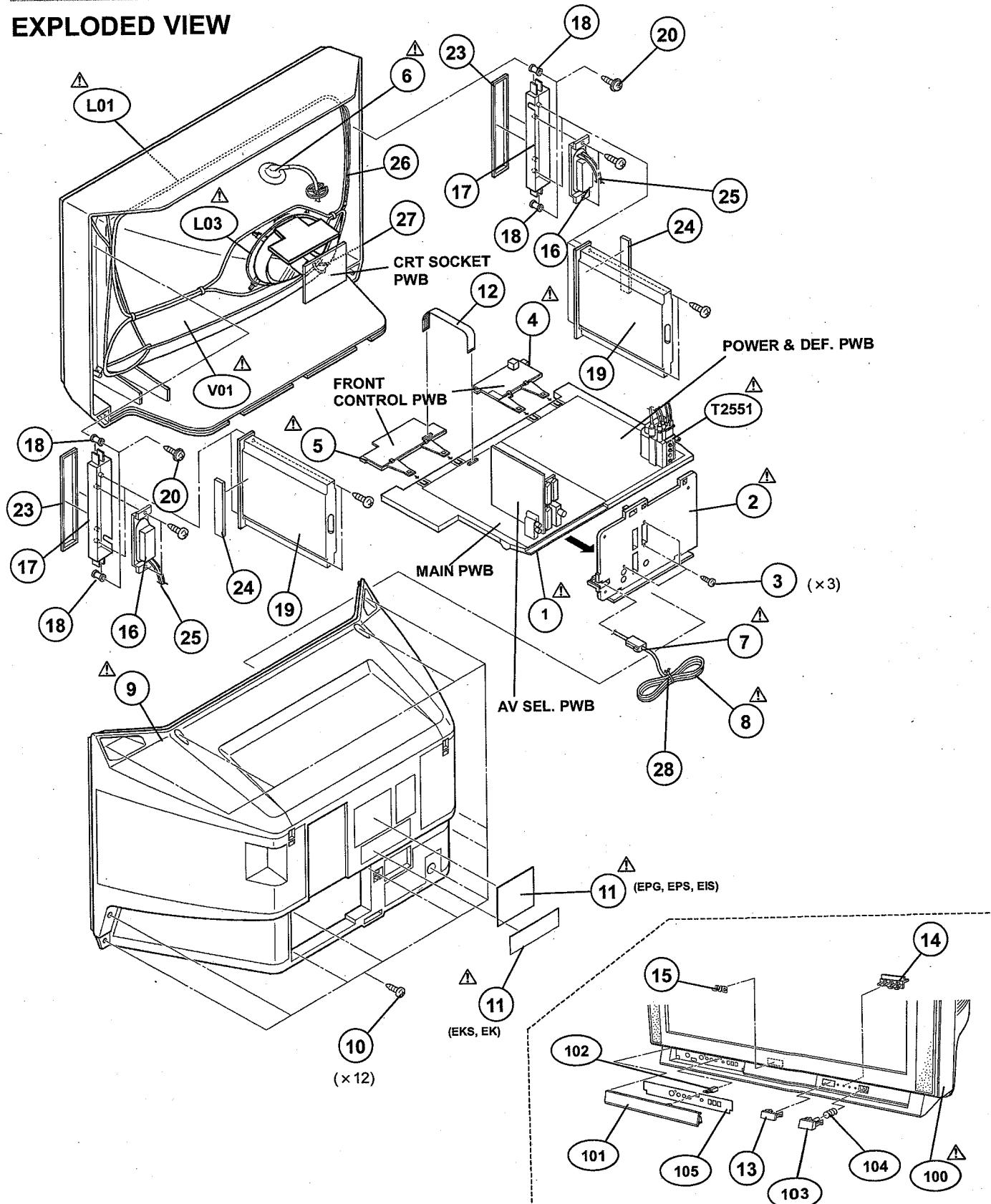
## AV-28WFT1EPG / AV-28WFT1EPS / AV-28WFT1EIS / AV-28WFT1EKS / AV-28WFT1EK

### EXPLODED VIEW PARTS LIST

Ref. No.	Part No.	Part Name	Description
△ V01	W66ERF031X013	CRT (ITC)	
△ L01	QQW0070-001	DEG COIL	
△ L03	CELD904-001	ROTATION COIL	
△ T2551	QQH0065-002-I2	FBT	(SERVICE) Within POWER DEF PWB
△ 1	LC10716-002D-U	CHASSIS BASE	
△ 2	LC10717-003C-U	AV BOARD	
△ 3	QYSBSB3012M	TAPPING SCREW	(x 3) For AV BOARD
△ 4	LC10380-003B-U	CONTROL BASE L	
△ 5	LC10380-004B-U	CONTROL BASE R	
△ 6	QNZ0407-001	ANODE WIRE	
△ 7	CM46618-A01-E	POWER CORD CLAMP	
△ 8	QMPK160-185-JC	POWER CORD	[AV-28WFT1EPG/EPS]
△ 8	QMPN130-185-JC	POWER CORD	[AV-28WFT1EIS/EKS/EK]
△ 9	LC10664-001C-U	REAR COVER	[AV-28WFT1EPG/EK]
△ 9	LC10664-002A-U	REAR COVER	[AV-28WFT1EPS/EIS/EKS]
10	QYSBSAG4016N	TAPPING SCREW	(x 12)
△ 11	LC20542-003A-U	RATING LABEL	[AV-28WFT1EPG]
△ 11	LC20542-004A-U	RATING LABEL	[AV-28WFT1EPS]
△ 11	LC20080-007A-U	RATING LABEL	[AV-28WFT1EIS]
△ 11	LC20091-012A-U	RATING LABEL	[AV-28WFT1EKS]
△ 11	LC20091-014A-U	RATING LABEL	[AV-28WFT1EK]
12	CHFD125-08BD	FFC WIRE	
13	LC30579-001B-C	REMOCON WINDOW	
14	LC30580-001B-C	L. E. D. LENS	
15	LC40354-001C-C	JVC MARK	
16	QAS0046-001	SPEAKER	(x 2) SP01, SP02
17	LC10720-001B-U	SPEAKER ADAPTER	(x 2)
18	LC40226-001A	SPACER	(x 4)
19	LC10721-001B-U	SPEAKER BOX	(x 2)
20	LC40506-001A	TAP SCREW	(x 4) For SPEAKER ADAPTER
23	LC30599-005A	STICK SHEET	(x 2)
24	AEM3029-A11-E	STICK SHEET	(x 4)
25	CHGS0061-0B-N	S. P. WIRE ASSY	(x 2)
26	WJY0001-004A	E-BRAIDED ASSY	
27	CHGB0017-0B	BRAIDED SUB ASSY	(x 2)
28	CM48170-001	BEAD TIE	
△ 100	LC10662-005A-U	FRONT CABL ASSY	Inc. No. 101 ~ 105 [AV-28WFT1EPG]
△ 100	LC10662-006A-U	FRONT CABL ASSY	Inc. No. 101 ~ 105 [AV-28WFT1EPS/EIS/EKS]
△ 100	LC10662-003C-U	FRONT CABINET ASSY	Inc. No. 101 ~ 105 [AV-28WFT1EK]
101	LC20265-003A-U	DOOR	(SERVICE) [AV-28WFT1EPG]
101	LC20265-010A-U	DOOR	(SERVICE) [AV-28WFT1EPS/EIS/EKS]
101	LC20265-006A-U	DOOR	(SERVICE) [AV-28WFT1EK]
102	CM48229-00A	DOOR LATCH	
103	LC30578-002A-C	POWER KNOB	(SERVICE) [AV-28WFT1EPG]
103	LC30578-006A-C	POWER KNOB	(SERVICE) [AV-28WFT1EPS/EIS/EKS]
103	LC30578-004A-C	POWER KNOB	(SERVICE) [AV-28WFT1EK]
104	CM35235-003-H	SPRING	
105	LC31109-002A-U	CONTROL SHEET	[AV-28WFT1EPG]
105	LC31109-004A-U	CONTROL SHEET	[AV-28WFT1EPS/EIS/EKS/EK]

**AV-28WFT1EPG / AV-28WFT1EPS / AV-28WFT1EIS /  
 AV-28WFT1EKS / AV-28WFT1EK**

**EXPLODED VIEW**



# AV-28WFT1EPG / AV-28WFT1EPS / AV-28WFT1EIS

## PRINTED WIRING BOARD PARTS LIST

MAIN PW BOARD ASS'Y (SJK-1702A-U2)

△	Symbol No.	Part No.	Part Name	Description	△	Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>									
R1001-06	NRSA02J-102X	MG R	1kΩ 1/10W J		R1554	NRSA02J-333X	MG R	33kΩ 1/10W J	
R1007	NRSA02J-104X	MG R	100kΩ 1/10W J		R1555	NRSA02J-472X	MG R	4.7kΩ 1/10W J	
R1008	NRSA02J-0R0X	MG R	0.0Ω 1/10W J		R1556	NRSA02J-154X	MG R	150kΩ 1/10W J	
R1301	NRSA02J-103X	MG R	10kΩ 1/10W J		R1557-58	NRSA02J-562X	MG R	5.6kΩ 1/10W J	
R1302	NRSA02J-183X	MG R	18kΩ 1/10W J		R1559	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	
R1303	NRSA02J-153X	MG R	15kΩ 1/10W J		R1560	NRSA02J-104X	MG R	100kΩ 1/10W J	
R1304	QRG016J-121	OM R	120Ω 1W J		R1561	QRE121J-100Y	C R	10Ω 1/2W J	
R1305	NRSA02J-562X	MG R	5.6kΩ 1/10W J		R1571	NRSA02J-101X	MG R	100Ω 1/10W J	
R1306	NRSA02J-222X	MG R	2.2kΩ 1/10W J		R1572	NRSA02J-133X	MG R	13kΩ 1/10W J	
R1307-08	NRSA02J-102X	MG R	1kΩ 1/10W J		R1573	NRSA02J-821X	MG R	82Ω 1/10W J	
R1309	NRSA02J-222X	MG R	2.2kΩ 1/10W J		R1602	NRSA02J-104X	MG R	100kΩ 1/10W J	
R1310-11	NRSA02J-391X	MG R	390Ω 1/10W J		R1604	NRSA02J-393X	MG R	39kΩ 1/10W J	
R1312-13	NRSA02J-101X	MG R	100Ω 1/10W J		R1605	NRSA02J-681X	MG R	68Ω 1/10W J	
R1314	NRSA02J-562X	MG R	5.6kΩ 1/10W J		R1606	NRSA02J-393X	MG R	39kΩ 1/10W J	
R1316	NRSA02J-224X	MG R	220kΩ 1/10W J		R1607	NRSA02J-681X	MG R	68Ω 1/10W J	
R1317	NRSA02J-101X	MG R	100Ω 1/10W J		R1608-09	NRSA02J-223X	MG R	22kΩ 1/10W J	
R1318-21	NRSA02J-102X	MG R	1kΩ 1/10W J		R1610-11	NRSA02J-822X	MG R	8.2kΩ 1/10W J	
R1327	NRSA02J-471X	MG R	470Ω 1/10W J		R1633	NRSA02J-273X	MG R	27kΩ 1/10W J	
R1328-29	NRSA02J-102X	MG R	1kΩ 1/10W J		R1638	NRSA02J-473X	MG R	47kΩ 1/10W J	
R1330	NRSA02J-472X	MG R	4.7kΩ 1/10W J		R1648	NRSA02J-104X	MG R	100kΩ 1/10W J	
R1331	NRSA02J-333X	MG R	33kΩ 1/10W J		R1649	NRSA02J-682X	MG R	6.8kΩ 1/10W J	
R1332-33	NRSA02J-222X	MG R	2.2kΩ 1/10W J		R1650	NRSA02J-104X	MG R	100kΩ 1/10W J	
R1335	NRSA02J-273X	MG R	27kΩ 1/10W J		R1660	QRK126J-2R2X	C R	2.2Ω 1/2W J	
R1336	NRSA02J-103X	MG R	10kΩ 1/10W J		R1661	NRSA02J-103X	MG R	10kΩ 1/10W J	
R1337	NRSA02J-102X	MG R	1kΩ 1/10W J		R1663	NRSA02J-561X	MG R	56Ω 1/10W J	
R1338	NRSA02J-562X	MG R	5.6kΩ 1/10W J		R1664	NRSA02J-562X	MG R	5.6kΩ 1/10W J	
R1339	NRSA02J-102X	MG R	1kΩ 1/10W J		R1683	QRK126J-2R2X	C R	2.2Ω 1/2W J	
R1340-41	NRSA02J-333X	MG R	33kΩ 1/10W J		R1689	NRSA02J-473X	MG R	47kΩ 1/10W J	
R1342	NRSA02J-152X	MG R	1.5kΩ 1/10W J		R1690	QRG016J-270	OM R	27Ω 1W J	
R1343	NRSA02J-272X	MG R	2.7kΩ 1/10W J		R1701	NRSA02J-221X	MG R	220Ω 1/10W J	
R1344	NRSA02J-471X	MG R	470Ω 1/10W J		R1702	NRSA02J-822X	MG R	8.2kΩ 1/10W J	
R1345	NRSA02J-102X	MG R	1kΩ 1/10W J		R1703	NRSA02J-273X	MG R	27kΩ 1/10W J	
R1346	NRSA02J-223X	MG R	22kΩ 1/10W J		R1704	NRSA02J-473X	MG R	47kΩ 1/10W J	
R1401-02	NRSA02J-103X	MG R	10kΩ 1/10W J		R1705	NRSA02J-102X	MG R	1kΩ 1/10W J	
R1403	NRSA02J-102X	MG R	1kΩ 1/10W J		R1706	NRSA02J-223X	MG R	22kΩ 1/10W J	
R1404	NRSA02J-183X	MG R	18kΩ 1/10W J		R1707-12	NRSA02J-103X	MG R	10kΩ 1/10W J	
R1405	NRSA02J-223X	MG R	22kΩ 1/10W J		R1713-14	NRSA02J-102X	MG R	1kΩ 1/10W J	
R1409	NRSA02J-0R0X	MG R	0.0Ω 1/10W J		R1716	NRSA02J-102X	MG R	1kΩ 1/10W J	
R1411	NRVA02D-473X	MF R	47kΩ 1/10W D		R1717	NRSA02J-104X	MG R	100kΩ 1/10W J	
R1413	NRVA02D-223X	MF R	22kΩ 1/10W D		R1718-19	NRSA02J-682X	MG R	6.8kΩ 1/10W J	
R1414	NRVA02D-101X	MF R	100Ω 1/10W D		R1720	NRSA02J-472X	MG R	4.7kΩ 1/10W J	
R1415	NRSA02J-562X	MG R	5.6kΩ 1/10W J		R1721	NRSA02J-103X	MG R	10kΩ 1/10W J	
R1416	NRSA02J-101X	MG R	100Ω 1/10W J		R1722	NRSA02J-472X	MG R	4.7kΩ 1/10W J	
R1417	NRSA02J-223X	MG R	22kΩ 1/10W J		R1723	NRSA02J-102X	MG R	1kΩ 1/10W J	
R1418	NRSA02J-682X	MG R	6.8kΩ 1/10W J		R1724-28	NRSA02J-472X	MG R	4.7kΩ 1/10W J	
R1419	NRSA02J-562X	MG R	5.6kΩ 1/10W J		R1729-31	NRSA02J-221X	MG R	220Ω 1/10W J	
R1420	NRSA02J-183X	MG R	18kΩ 1/10W J		R1732	NRSA02J-562X	MG R	5.6kΩ 1/10W J	
R1501	NRSA02J-621X	MG R	620Ω 1/10W J		R1733	NRSA02J-103X	MG R	10kΩ 1/10W J	
R1502	NRSA02J-103X	MG R	10kΩ 1/10W J		R1734	NRSA02J-223X	MG R	22kΩ 1/10W J	
R1503	NRSA02J-104X	MG R	100kΩ 1/10W J		R1736-39	NRSA02J-103X	MG R	10kΩ 1/10W J	
R1504	NRSA02J-103X	MG R	10kΩ 1/10W J		R1740	NRSA02J-331X	MG R	330Ω 1/10W J	
R1505-06	NRSA02J-221X	MG R	220Ω 1/10W J		R1741-44	NRSA02J-102X	MG R	1kΩ 1/10W J	
R1507	NRSA02J-102X	MG R	1kΩ 1/10W J		R1745-47	NRSA02J-472X	MG R	4.7kΩ 1/10W J	
R1508-09	NRSA02J-223X	MG R	22kΩ 1/10W J		R1748-52	NRSA02J-221X	MG R	220Ω 1/10W J	
R1511	NRSA02J-0R0X	MG R	0.0Ω 1/10W J		R1753	NRSA02J-102X	MG R	1kΩ 1/10W J	
R1514	NRSA02J-472X	MG R	4.7kΩ 1/10W J		R1754	NRSA02J-683X	MG R	68kΩ 1/10W J	
R1516	NRSA02J-222X	MG R	2.2kΩ 1/10W J		R1755	NRSA02J-102X	MG R	1kΩ 1/10W J	
R1517	NRSA02J-472X	MG R	4.7kΩ 1/10W J		R1756	NRSA02J-103X	MG R	10kΩ 1/10W J	
R1518	NRSA02J-682X	MG R	6.8kΩ 1/10W J		R1758	NRSA02J-103X	MG R	10kΩ 1/10W J	
R1519	NRSA02J-562X	MG R	5.6kΩ 1/10W J		R1759	NRSA02J-472X	MG R	4.7kΩ 1/10W J	
R1520	NRSA02J-152X	MG R	1.5kΩ 1/10W J		R1760	NRSA02J-103X	MG R	10kΩ 1/10W J	
R1551	QRE121J-100Y	C R	10Ω 1/2W J		R1762-63	NRSA02J-103X	MG R	10kΩ 1/10W J	
R1552	NRSA02J-124X	MG R	120kΩ 1/10W J		R1764-66	NRSA02J-221X	MG R	220Ω 1/10W J	
R1553	NRSA02J-683X	MG R	68kΩ 1/10W J		R1767	NRSA02J-103X	MG R	10kΩ 1/10W J	

△	Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>				
R1770	NRSA02J-272X	MG R	2.7kΩ 1/10W J	
R1771-73	NRSA02J-222X	MG R	2.2kΩ 1/10W J	
R1774-75	NRSA02J-393X	MG R	39kΩ 1/10W J	
R1777-79	NRSA02J-222X	MG R	2.2kΩ 1/10W J	
R1780	NRSA02J-102X	MG R	1kΩ 1/10W J	
R1784	NRSA02J-473X	MG R	47kΩ 1/10W J	
R1785	NRSA02J-223X	MG R	22kΩ 1/10W J	
R1786	NRSA02J-473X	MG R	47kΩ 1/10W J	
R1787	NRSA02J-332X	MG R	3.3kΩ 1/10W J	
R1788	NRSA02J-272X	MG R	2.7kΩ 1/10W J	
R1789	NRSA02J-473X	MG R	47kΩ 1/10W J	
R1790	NRSA02J-682X	MG R	6.8kΩ 1/10W J	
R1801-02	NRSA02J-103X	MG R	10kΩ 1/10W J	
R1804	NRSA02J-473X	MG R	47kΩ 1/10W J	
R1805	NRSA02J-333X	MG R	33kΩ 1/10W J	
R1834	NRSA02J-473X	MG R	47kΩ 1/10W J	
R1835	NRSA02J-152X	MG R	1.5kΩ 1/10W J	
R1837	NRSA02J-102X	MG R	1kΩ 1/10W J	
R1838	NRSA02J-393X	MG R	39kΩ 1/10W J	
R1839	NRSA02J-332X	MG R	3.3kΩ 1/10W J	
R1840	NRSA02J-152X	MG R	1.5kΩ 1/10W J	
R1841	NRSA02J-331X	MG R	33Ω 1/10W J	
R1842	NRSA02J-222X	MG R	2.2kΩ 1/10W J	
R1843	NRSA02J-332X	MG R	3.3kΩ 1/10W J	
R1844	NRSA02J-392X	MG R	3.9kΩ 1/10W J	
R1845	NRSA02J-272X	MG R	2.7kΩ 1/10W J	
R1846	NRSA02J-103X	MG R	10kΩ 1/10W J	
R1847-48	NRSA02J-472X	MG R	4.7kΩ 1/10W J	
R1849	NRSA02J-823X	MG R	82kΩ 1/10W J	
R1850-56	NRSA02J-102X	MG R	1kΩ 1/10W J	
R1857	NRSA02J-472X	MG R	4.7kΩ 1/10W J	
R1858	NRSA02J-223X	MG R	22kΩ 1/10W J	
R1859	NRSA02J-823X	MG R	82kΩ 1/10W J	
R1871	NRSA02J-102X	MG R	1kΩ 1/10W J	
R1872-73	NRSA02J-222X	MG R	2.2kΩ 1/10W J	
R1874	NRSA02J-272X	MG R	2.7kΩ 1/10W J	
R1875	NRSA02J-104X	MG R	100kΩ 1/10W J	
R1876	NRSA02J-102X	MG R	1kΩ 1/10W J	
R1877	NRSA02J-393X	MG R	39kΩ 1/10W J	
R1878-80	NRSA02J-152X	MG R	1.5kΩ 1/10W J	
R1881-82	NRSA02J-331X	MG R	33Ω 1/10W J	
R1883	NRSA02J-102X	MG R	1kΩ 1/10W J	
R1884	NRSA02J-331X	MG R	33Ω 1/10W J	
<b>CAPACITOR</b>				
C1001	NCB21HK-222X	C CAP.	2200pF 50V K	
C1003	NCB21EK-104X	C CAP.	0.1μF 25V K	
C1004	QETN1CM-108Z	E CAP.	1000pF 16V M	
C1005	QETN1CM-107Z	E CAP.	100pF 16V M	
C1006	QETN1HM-106Z	E CAP.	10pF 50V M	
C1007	NCB21EK-104X	C CAP.	0.1μF 25V K	
C1008	QETN1HM-106Z	E CAP.	10pF 50V M	
C1009	NCB21EK-104X	C CAP.	0.1μF 25V K	
C1010	QETN1CM-107Z	E CAP.	100pF 16V M	
C1301	NCB21EK-104X	C CAP.	0.1μF 25V K	
C1302	NCB21HK-823X	CHIP CAP.	0.082μF 50V K	
C1303	QETN1EM-476Z	E CAP.	47pF 25V M	
C1304	NCB21HK-103X	C CAP.	0.01μF 50V K	
C1305	QETN1CM-107Z	E CAP.	100pF 16V M	
C1306	NCB21HK-103X	C CAP.	0.01μF 50V K	
C1307	QETN1CM-477Z	E CAP.	470pF 16V M	
C1308	NDC21HJ-120X	C CAP.	12pF 50V J	
C1309	QETN1HM-475Z	E CAP.	4.7μF 50V M	
C1310	NCB21HK-103X	C CAP.	0.01μF 50V K	
C1311	QETN1HM-106Z	E CAP.	10pF 50V M	
C1312	NDC21HJ-680X	C CAP.	68pF 50V J	
C1313	QETN1CM-107Z	E CAP.	100pF 16V M	
C1314	NCB21HK-103X	C CAP.	0.01μF 50V K	

△	Symbol No.	Part No.	Part Name	Description
<b>CAPACITOR</b>				
C1315	QETN1HM-106Z	E CAP.	10pF 50V M	
C1319	QETN1CM-107Z	E CAP.	100pF 16V M	
C1320	NCB21HK-103X	C CAP.	0.01μF 50V K	
C1321-23	NCB21EK-104X	C CAP.	0.1μF 25V K	
C1324-26	QETN1HM-105Z	E CAP.	1μF 50V M	
C1327	QETN1HM-475Z	E CAP.	4.7μF 50V M	
C1328	QETN1CM-107Z	E CAP.	100pF 16V M	
C1329	QETN1EM-476Z	E CAP.	47pF 25V M	
C1330	NDC21HJ-390X	C CAP.	39pF 50V J	
C1331	QETN1HM-105Z	E CAP.	1μF 50V M	
C1332	NCB21HK-103X	C CAP.	0.01μF 50V K	
C1333	NCB21EK-104X	C CAP.	0.1μF 25V K	
C1401	QETN1HM-105Z	E CAP.	1μF 50V M	
C1403-05	NCB21HK-103X	C CAP.	0.01μF 50V K	
C1406	QFV71HJ-184Z	MF CAP.	0.18μF 50V J	
C1407	QFV71HJ-564Z	MF CAP.	0.56μF 50V J	
C1408	NCB21HK-153X	C CAP.	0.015μF 50V K	
C1501	QETN1CM-107Z	E CAP.	100pF 16V M	
C1502-04	NCB21HK-103X	C CAP.	0.01μF 50V K	
C1505	NCB21HK-822X	C CAP.	8200pF 50V K	
C1506	QETN1HM-105Z	E CAP.	1μF 50V M	
C1507	NCB21HK-103X	C CAP.	0.01μF 50V K	
C1508	QETN1CM-108Z	E CAP.	1000pF 16V M	
C1509	NCB21HK-823X	CHIP CAP.	0.082μF 50V K	
C1510-11	NCB21HK-103X	C CAP.	0.01μF 50V K	
C1512	QTMN1HM-105Z	E CAP.	0.1μF 50V M	
C1513	QETN1CM-228Z	E CAP.	2200pF 16V M	
C1514	NCB21HK-103X	C CAP.	0.01μF 50V K	
C1515	QFV71HJ-394Z	MF CAP.	0.39μF 50V J	
C1516	NCB21HK-103X	C CAP.	0.01μF 50V K	
C1551-52	NCB21EK-224X	CHIP CAP.	0.22μF 25V K	
C1553	QETN1EM-476Z	E CAP.	47pF 25V M	
C1554-55	NCB21EK-224X	CHIP CAP.	0.22μF 25V K	
C1571	NCB21HK-103X	C CAP.	0.01μF 50V K	
C1601-02	NCB21HK-103X	C CAP.	0.01μF 50V K	
C1603-04	NCF21CZ-105X	C CAP.	1μF 16V Z	
C1606	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	
C1622-23	QETN1CM-227Z	E CAP.	220pF 16V M	
C1625	QETN1HM-105Z	E CAP.	1μF 50V M	
C1635	QETN1HM-105Z	E CAP.	1μF 50V M	
C1636	QETN1HM-107Z	E CAP.	100μF 50V M	
C1637	QETN1HM-106Z	E CAP.	10μF 50V M	
C1638-39	NCF21H2-224X	C CAP.	0.22μF 50V Z	
C1653	NCF21H2-224X	C CAP.	0.22μF 50V Z	
C1655	NCF21H2-224X	C CAP.	0.22μF 50V Z	
C1656	QETN1HM-228	E CAP.	2200pF 50V M	
C1661-62	QETN1VM-108	E CAP.	1000pF 35V M	
C1668	NCB21EK-104X	C CAP.	0.1μF 25V K	
C1671	QETN1CM-107Z	E CAP.	100μF 16V M	
C1672	NCB21EK-104X	C CAP.	0.1μF 25V K	
C1701	NCF21CZ-105X	C CAP.	1μF 16V Z	
C1703	QETN1EM-476Z	E CAP.	47μF 25V M	
C1704	NCB21EK-104X	C CAP.	0.1μF 25V K	
C1705	QETN1AM-107Z	E CAP.	100μF 10V M	
C1706	NCB21EK-104X	C CAP.	0.1μF 25V K	
C1707	QETN1HM-474Z	E CAP.	0.47μF 50V M	
C1708	QETN1EM-476Z	E CAP.	47μF 25V M	
C1709-10	NDC21HJ-90X	C CAP.	9.0pF 50V J	
C1711	NCB21EK-104X	C CAP.	0.1μF 25V K	
C1712	NDC21HJ-151X	C CAP.	150pF 50V J	
C1713	QETN1HM-105Z	E CAP.	1μF 50V M	
C1714	NCB21HJ-561X	C CAP.	560pF 50V J	
C1716-17	QETN1HM-105Z	E CAP.	1μF 50V M	
C1718	NCB21HK-333X	C CAP.	0.033μF 50V K	
C1725	NCB21HK-102X	C CAP.	1000pF 50V K	
C1726	NCB21HJ-391X	C CAP.	390pF 50V J	
C1831-32	QETN1EM-476Z	E CAP.	47μF 25V M	
C1833	NCB21HJ-221X	C CAP.	220pF 50V J	
C1834	NCB21EK-104X	C CAP.	0.1μF 25V K	
C1835	NCB21HJ-220X	C CAP.	22pF 50V J	

△	Symbol No.	Part No.	Part Name	Description
<b>CAPACITOR</b>				
C1836-38	NCB21EK-104X	C CAP.	0.1μF	25V K
C1839	QETN1HM-106Z	E CAP.	10μF	50V M
C1871	NCB21EK-104X	C CAP.	0.1μF	25V K
C1872	NCB21HK-223X	C CAP.	0.022μF	50V K
C1873	NDC21HJ-221X	C CAP.	220pF	50V J
C1874-75	NDC21HJ-150X	C CAP.	15pF	50V J
C1875	NCB21HK-102X	C CAP.	1000pF	50V K
C1877	NCB21EK-104X	C CAP.	0.1μF	25V K
C1878	NCB21HK-102X	C CAP.	1000pF	50V K
C1879	NDC21HJ-180X	C CAP.	18pF	50V J
C1880	QETN1AM-477Z	E CAP.	470μF	10V M
C1881	NCB21EK-104X	C CAP.	0.1μF	25V K
C1882	QETN1EM-476Z	E CAP.	47μF	25V M
C1883	NCB21HK-103X	C CAP.	0.01μF	50V K
C1885	NCB21EK-104X	C CAP.	0.1μF	25V K
C1886	NCB21HK-103X	C CAP.	0.01μF	50V K
C1887-89	QETN1HM-106Z	E CAP.	10μF	50V M

**COIL**

L1001	QQL01BK-5R6Z	PEAKING COIL	5.6μH
L1002	QQL01BK-270Z	PEAKING COIL	27μH
L1301-02	QQL01BK-4R7Z	PEAKING COIL	4.7μH
L1305	QQL244K-4R7Z	PEAKING COIL	4.7μH
L1306	QQL01BK-330Z	PEAKING COIL	33μH
L1501	QQL244J-151Z	PEAKING COIL	150μH
L1701	QQL01BK-4R7Z	PEAKING COIL	4.7μH
L1702	QQL01BK-3R9Z	PEAKING COIL	3.9μH
L1871	QQL01BK-4R7Z	PEAKING COIL	4.7μH

**DIODE**

D1301	MA3051/M/-X	ZENER DIODE
D1302-04	MA111-X	SI.DIODE
D1503	R8100A-T2	SI.DIODE
D1602	MA111-X	SI.DIODE
D1608-10	MA111-X	SI.DIODE
D1612-13	MA111-X	SI.DIODE
D1617-18	MA3330/L/-X	ZENER DIODE
D1624-25	MA111-X	SI.DIODE
D1701	MA3068/M/-X	ZENER DIODE
D1702	MA111-X	SI.DIODE
D1704	MA111-X	SI.DIODE
D1705	MA3036-X	ZENER DIODE
D1706-08	MA111-X	SI.DIODE
D1710	MA111-X	SI.DIODE
D1831	MA3051/M/-X	ZENER DIODE

**TRANSISTOR**

Q1301-02	2SA1037AK/QR/-X	SI.TRANSISTOR
Q1308	DTC124EK-X	DIGI. TRANSISTOR
Q1309	2SC2412K/QR/-X	SI.TRANSISTOR
Q1310	2SA1037AK/QR/-X	SI.TRANSISTOR
Q1311	DTC124EK-X	DIGI. TRANSISTOR
Q1312	2SA1037AK/QR/-X	SI.TRANSISTOR
Q1401	DTC124EK-X	DIGI. TRANSISTOR
Q1402	2SC2412K/QR/-X	SI.TRANSISTOR
Q1601	2SA1037AK/QR/-X	SI.TRANSISTOR
Q1602-03	DTC323TK-X	DIGI. TRANSISTOR
Q1604	2SA1037AK/QR/-X	SI.TRANSISTOR
Q1609	2SA1037AK/QR/-X	SI.TRANSISTOR
Q1610	DTC323TK-X	DIGI. TRANSISTOR
Q1612	DTC323TK-X	DIGI. TRANSISTOR
Q1613	2SA1037AK/QR/-X	SI.TRANSISTOR
Q1614	2SC2412K/QR/-X	SI.TRANSISTOR
Q1701-04	2SC2412K/QR/-X	SI.TRANSISTOR
Q1705-06	2SA1037AK/QR/-X	SI.TRANSISTOR
Q1707	2SC2412K/QR/-X	SI.TRANSISTOR

△	Symbol No.	Part No.	Part Name	Description
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**TRANSISTOR**

Q1708	2SA1037AK/QR/-X	SI.TRANSISTOR
Q1709-10	2SC2412K/QR/-X	SI.TRANSISTOR
Q1832-33	2SC2412K/QR/-X	SI.TRANSISTOR
Q1834	2SA1037AK/QR/-X	SI.TRANSISTOR
Q1835-37	2SC2412K/QR/-X	SI.TRANSISTOR
Q1871	2SA1037AK/QR/-X	SI.TRANSISTOR
Q1872	2SC2412K/QR/-X	SI.TRANSISTOR

**IC**

IC1301	TB1227CN	I.C.
IC1302	TC4053BP/N	I.C. (DIGI-MOS)
IC1501	AN5441SA-W	I.C.
IC1551	LA6515	I.C. (MONO-ANA)
IC1601	TA8246AH	I.C. (HYBRID)
IC1607	TA78L005AP-T	I.C. (H)
IC1701	M37280MK-104SP	I.C.
IC1702	AT24C16-32WFT1	I.C. (SERVICE)
IC1703	L78LR05E-MA	I.C. (MONO-ANA)
IC1704	JLC1562BF-X	I.C. (DIGI-MOS)
IC1831	JCC5035	I.C. (DIGI-MOS)
IC1832	MN1382/Q-X	I.C. (MONO-ANA)
IC1871	ET417	I.C. (M)
IC1872	ET206	I.C. (M)

**OTHERS**

CN1001	QGF1216C1-25	FFC CONNECTOR
J1001	QNN0296-001	PIN JACK
K1001-02	CE41433-001Z	BEADS CORE
K1004	CE41433-001Z	BEADS CORE
K1307	CE41433-001Z	BEADS CORE
K1601-02	CE42681-001Y	BEADS CORE
K1872	CE41433-001Z	BEADS CORE
LC1301	CE42142-222Z	EMI FILTER
TU1001	QAU0188-001	TUNER
W1229	NRSA02J-0R0X	MG R
W1232-33	NRSA02J-0R0X	MG R
W1235-37	NRSA02J-0R0X	MG R
W1239-42	NRSA02J-0R0X	MG R
W1245	NRSA02J-0R0X	MG R
X1301	QAX0305-001Z	CRYSTAL
X1701	CS78.00MTW	CER. RESONATOR
X1831	QAX0624-001Z	C RESONATOR
X1871	CE41257-001Z	CRYSTAL
Y1611-13	NRSA02J-0R0X	MG R
Y1618-19	NRSA02J-0R0X	MG R
Y1871	NRSA02J-0R0X	MG R

POWER & DEF. PW BOARD ASS'Y (SJK-2502A-U2)

△	Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>				
	R2401	QRA14CF-5601Y	MF R	5.6kΩ 1/4W F
	R2402	QRA14CF-6801Y	MF R	6.8kΩ 1/4W F
	R2403	QRE141J-332Y	C R	3.3kΩ 1/4W J
	R2404	QRE141J-821Y	C R	820Ω 1/4W J
	R2405	QRA14CF-8200Y	MF R	820Ω 1/4W F
	R2406	QRE141J-103Y	C R	10kΩ 1/4W J
	R2409	QRE141J-103Y	C R	10kΩ 1/4W J
	R2410	QRE141J-102Y	C R	1kΩ 1/4W J
	R2414	QRE121J-3R9Y	C R	3.9Ω 1/2W J
	R2415	QRX01GJ-1R8	MF R	1.8Ω 1W J
	R2416	QRO1GJ-820	OM R	82Ω 1W J
	R2417	QRE121J-1R0Y	C R	1.0Ω 1/2W J
	R2461	QRE141J-331Y	C R	330Ω 1/4W J
△	R2463-64	QRE121J-392Y	C R	3.9kΩ 1/2W J
	R2465	QRE121J-822Y	C R	8.2kΩ 1/2W J
	R2466	QRE121J-102Y	C R	1kΩ 1/2W J
	R2467	QRG039J-120	OM R	12 Ω 3W J
	R2492	QRE141J-683Y	C R	68kΩ 1/4W J
△	R2493	QRE141J-224Y	C R	220kΩ 1/4W J
△	R2494	QRZ9017-4R7	F R	4.7Ω 1/4W J
	R2495	QRE141J-103Y	C R	10kΩ 1/4W J
	R2496	QRE141J-183Y	C R	18kΩ 1/4W J
	R2497	QRE141J-153Y	C R	15kΩ 1/4W J
	R2502	QRE141J-222Y	C R	2.2kΩ 1/4W J
	R2503	QRE121J-152Y	C R	1.5kΩ 1/2W J
	R2504	QRL039J-272	OM R	2.7kΩ 3W J
	R2505	QRL039J-332	OM R	3.3kΩ 3W J
	R2521	QRE121J-150Y	C R	15Ω 1/2W J
	R2522	QRL039J-103	OM R	10kΩ 3W J
△	R2523	QRE121J-471Y	C R	470Ω 1/2W J
△	R2524	QRZ9017-4R7	F R	4.7Ω 1/4W J
△	R2525	QRE141J-332Y	C R	3.3kΩ 1/4W J
	R2541	QRE121J-103Y	C R	10kΩ 1/2W J
	R2542	QRE121J-222Y	C R	2.2kΩ 1/2W J
	R2543	QRE121J-124Y	C R	120kΩ 1/2W J
	R2544	QRE121J-104Y	C R	100kΩ 1/2W J
	R2545	QRE141J-123Y	C R	12kΩ 1/4W J
	R2546	QRE121J-104Y	C R	100kΩ 1/2W J
	R2547	QRE141J-123Y	C R	12kΩ 1/4W J
	R2548	QRE121J-222Y	C R	2.2kΩ 1/2W J
	R2551-52	QRT039J-3R3	MF R	3.3Ω 3W J
	R2553	QRF104K-5R6	UNF R	5.6Ω 10W K
△	R2554	QRZ9021-1R5	F R	1.5Ω 1W J
△	R2555	QRZ9011-4R7	F R	4.7Ω 1/2W J
△	R2556	QRZ9021-100	FUSI. RESISTOR	10 Ω 1W J
△	R2557	QRZ9021-100	FUSI. RESISTOR	10 Ω 1W J
	R2561	QRL029J-220	OM R	22Ω 2W J
	R2562	QRE121J-123Y	C R	12kΩ 1/2W J
	R2563	QRZ0056-103Z	COMP. R	10kΩ 1/2W K
	R2591	QRE121J-123Y	C R	12kΩ 1/2W J
	R2592	QRA14CF-1201Y	MF R	1.2kΩ 1/4W F
	R2593	QRE141J-183Y	C R	18kΩ 1/4W J
	R2594	QRE141J-222Y	C R	2.2kΩ 1/4W J
△	R2595	QRA14CF-9101Y	MF R	9.1kΩ 1/4W F
△	R2596	QRA14CF-1371Y	MF R	1.37kΩ 1/4W F
△	R2597	QRE141J-273Y	C R	27kΩ 1/4W J
	R2902	QRE121J-331Y	C R	330Ω 1/2W J
	R2903	QRF104K-3R9	UNF R	3.9Ω 10W K
R2904-05	R2904	QRE121J-474Y	C R	470kΩ 1/2W J
R2907-08	R2907	QRL039J-823	OM R	82kΩ 3W J
	R2909	QRG039J-683	OM R	68kΩ 3W J
	R2910	QRE121J-681Y	C R	680Ω 1/2W J
	R2911	QRM059J-R15	MP R	0.15Ω 5W J
	R2912	QRT029J-2R2	MF R	2.2Ω 2W J
△	R2913	QRZ9017-100	FUSI. RESISTOR	10 Ω 1/4W J
	R2914	QRE121J-272Y	C R	2.7kΩ 1/2W J
	R2918	QRE121J-332Y	C R	3.3kΩ 1/2W J
	R2933	QRE141J-102Y	C R	1kΩ 1/4W J
	R2935	QRE141J-473Y	C R	47kΩ 1/4W J

△	Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>				
	R2936	QRE141J-103Y	C R	10kΩ 1/4W J
	R2938	QRE121J-102Y	C R	1kΩ 1/2W J
	R2940	QRE121J-390Y	C R	39Ω 1/2W J
	R2964	QRE121J-102Y	C R	1kΩ 1/2W J
	R2967	QRL039J-223	OM R	22kΩ 3W J
	R2976	QRL029J-100	OM R	10Ω 2W J
△	R2991	QRZ0057-825	C R	8.2MΩ 1W J
<b>CAPACITOR</b>				
	C2401	QEH1VM-227Z	E CAP.	220μF 35V M
	C2402	QET1VM-108	E CAP.	1000μF 35V M
	C2403	QFLC2AJ-683Z	M CAP.	0.068μF 100V J
	C2404	QETN1HM-105Z	E CAP.	1μF 50V M
	C2405	QFLC1HM-472Z	M CAP.	4700μF 50V J
	C2406	QZC0337-180Z	M CAP.	18pF 2kV J
	C2407	QFLC1HM-102Z	M CAP.	1000pF 50V J
	C2408	QFV71HM-334Z	MF CAP.	0.33μF 50V J
	C2410	QFV71HM-334Z	MF CAP.	0.33μF 50V J
	C2411	QFLC2AJ-563Z	M CAP.	0.056μF 100V J
	C2451	QFV71HM-104Z	MF CAP.	0.1μF 50V J
	C2461	QETN2AM-475Z	E CAP.	4.7μF 100V M
	C2462	QETN1HM-106Z	E CAP.	10μF 50V M
	C2463	QFLC1HM-153Z	M CAP.	0.015μF 50V J
	C2464	QFLC1HM-333Z	M CAP.	0.033μF 50V J
	C2491	QETN1HM-105Z	E CAP.	1μF 50V M
	C2492	QETN1HM-106Z	E CAP.	10μF 50V M
	C2502	QCB32HK-681Z	C CAP.	680pF 500V K
	C2503	QEH2CM-105Z	E CAP.	1μF 160V M
△	C2521	QFZ0200-352	MPP CAP.	3500pF 1.5kVH ±3%
△	C2522	QFZ0200-113	MPP CAP.	0.011μF 1.5kVH ±3%
△	C2523	QFP32GJ-223	PP CAP.	0.022μF 400V J
	C2524	QF72DK-104	M CAP.	0.1μF 200V K
	C2525	QFZ0199-354	MPP CAP.	0.35μF 250V J
	C2526	QFZ0199-254	MPP CAP.	0.25μF 250V J
	C2527	QEH2EM-475Z	E CAP.	4.7μF 250V M
	C2528	QFZ0199-683	MPP CAP.	0.068μF 250V J
	C2529	QFZ0199-104	MPP CAP.	0.1μF 250V J
	C2530	QCB32HK-561Z	C CAP.	560pF 500V K
	C2531	QFLC1HM-103Z	M CAP.	0.01F 50V J
	C2532	QFZ0199-334	MPP CAP.	0.33μF 250V J
	C2542	QFZ0199-204	MPP CAP.	0.2μF 250V J
	C2543	QFZ0199-154	MPP CAP.	0.15μF 250V J
	C2551	QETN2EM-106Z	E CAP.	10μF 250V M
	C2552	QCB32HK-152Z	C CAP.	1500pF 500V K
	C2553	QEH1EM-108Z	E CAP.	1000pF 25V M
	C2554	QCB32HK-152Z	C CAP.	1500pF 500V K
	C2555	QEH1EM-108Z	E CAP.	1000pF 25V M
	C2560	QETN2CM-227	E CAP.	220pF 160V M
	C2561	QFLC1HM-683Z	M CAP.	0.068μF 50V J
	C2566	QFZ0117-1002	MPP CAP.	0.01μF 1.4kVH ±2.5%
	C2591	QETN1AM-107Z	E CAP.	100pF 10V M
	C2592	QETN1EM-476Z	E CAP.	47μF 25V M
	C2593	QETN2AM-106Z	E CAP.	10μF 100V M
	C2594	QETN1AM-227Z	E CAP.	220pF 10V M
△	C2901	QFZ0940-473	MF CAP.	0.047μF 275V Z
△	C2904	QCZ9054-472	C CAP.	4700pFAC250V Z
△	C2905	QCZ9054-472	C CAP.	4700pFAC250V Z
△	C2906	QCZ9054-472	C CAP.	4700pFAC250V M
	C2907	QEZ0199-227	E CAP.	220pF 400V M
	C2908	QCB32HK-103	C CAP.	0.01μF 500V K
	C2909	QCZ0122-391	C CAP.	390pF 2kV K
	C2910	QCZ0122-102	C CAP.	1000pF 2kV K
	C2912	QCB31HK-222Z	C CAP.	2200pF 50V K
	C2913	QETN1HM-476Z	E CAP.	47μF 50V M
	C2916	QETN1HM-107Z	E CAP.	100pF 50V M
	C2918	QCB31HK-681Z	C CAP.	680pF 50V K
	C2933-34	QETN1HM-106Z	E CAP.	10μF 50V M
	C2935	QETN1EM-227Z	E CAP.	220μF 25V M

AV-28WFT1EPG/EIPS/EIS

△	Symbol No.	Part No.	Part Name	Description
<b>CAPACITOR</b>				
C2951	QCZ0122-561	C CAP.	560pF	2KV K
C2952	QEZO203-227	E CAP.	220uF	160V M
C2953	QCB32HK-391Z	C CAP.	390pF	500V K
C2954	QEHO1EM-228	E CAP.	2200uF	25V M
C2955	QCB32HK-391Z	C CAP.	390pF	500V K
C2956	QEHO1CM-228	E CAP.	2200uF	16V M
C2958	QCB32HK-391Z	C CAP.	390pF	500V K
C2959	QETM1VM-228	E CAP.	2200uF	35V M
C2964	QFV71HJ-684Z	MF CAP.	0.68uF	50V J
C2968	QCZ0120-104Z	C CAP.	0.1uF	25V Z
C2969	QEHR1CM-477Z	E CAP.	470uF	16V M
C2970	QEHR1CM-107Z	E CAP.	100uF	16V M
C2971	QCZ0120-104Z	C CAP.	0.1uF	25V Z
C2972	QETN1CM-227Z	E CAP.	220uF	16V M
C2973	QETN1EM-476Z	E CAP.	47uF	25V M
C2974	QCZ0120-104Z	C CAP.	0.1uF	25V Z
C2975	QETN1AM-227Z	E CAP.	220uF	10V M
C2976	QETN1EM-476Z	E CAP.	47uF	25V M
C2979	QFV71HJ-104Z	MF CAP.	0.1uF	50V J
△ C2991	QCZ9079-332	C CAP.	3300pFAC250V	M
△ C2992	QCZ9079-471	C CAP.	470pFAC250V	K
<b>TRANSFORMER</b>				
T2501	CE42034-002	H.DRIVE TRANSF.		
T2521	CE42549-001J1	BRIDGE COIL		
△ T2551	QH0065-002-I2	FBT		(SERVICE)
T2561	QOR0898-001	DEF. TRANSF.		
△ T2901	QQS0065-001	SW TRANSF.		
△ T2921	QQT0303-001	POWER TRANSF.		
<b>COIL</b>				
L2461	QQLZ028-822	CHOKE COIL		
L2521	QQLZ028-101	CHOKE COIL		
L2522	QQR1106-001	LINEARITY COIL		
L2561	QQLZ028-272	CHOKE COIL		
L2901-02	QQL402K-100	COIL		10uH
△ L2903	QOR0659-004	CHOKE COIL		
L2951	QQLZ026-460	HEATER CHOKE		
L2952	QQL26AK-820Z	CHOKE COIL		
L2953-54	QQL26AM-5R6Z	CHOKE COIL		
<b>DIODE</b>				
D2401	MTZJ75-T2	ZENER DIODE		
D2402	1N4003-T2	SI.DIODE		
D2403	1SS133-T2	SI.DIODE		
D2451	BYD33D-T3	SI.DIODE		
D2491	BYD33D-T3	SI.DIODE		
D2492	MTZJ22B-T2	ZENER DIODE		
D2493-94	1SS133-T2	SI.DIODE		
D2521	RH3G-F1	SI.DIODE		
D2522	BYW95B-20	SI.DIODE		
D2523	BYD33G-T3	SI.DIODE		
D2524	1SS133-T2	SI.DIODE		
D2525	MTZJ9.1B-T2	ZENER DIODE		
D2551	BYD33G-T3	SI.DIODE		
D2553-54	BYW95B-20	SI.DIODE		
D2555-56	MTZJ12C-T2	ZENER DIODE		
D2591	MTZJ15B-T2	ZENER DIODE		
D2592	MTZJ7.5B-T2	ZENER DIODE		
D2593	BYD33D-T3	SI.DIODE		
D2594	MTZJ7.55-T2	ZENER DIODE		
△ D2901	D35BA60	DIODE BRIDGE		
D2902	BYD33H-T3	SI.DIODE		
D2904-05	BYD33D-T3	SI.DIODE		
D2909	1SS133-T2	SI.DIODE		
D2911	MTZJ15B-T2	ZENER DIODE		
D2913	MTZJ27B-T2	ZENER DIODE		

△	Symbol No.	Part No.	Part Name	Description
<b>DIODE</b>				
D2931	1SS133-T2	SI.DIODE		
D2934	MTZJ6.2B-T2	ZENER DIODE		
D2935-38	1N4003-T2	SI.DIODE		
D2939	1SS133-T2	SI.DIODE		
D2951	RU4B-F1	SI.DIODE		
D2953-54	BYW95B-20	SI.DIODE		
D2955	FMX-G12S	SI.DIODE		
D2958	1SR35-400A-T2	SI.DIODE		
D2963	MTZJ3.9B-T2	ZENER DIODE		
D2964	MTZJ33B-T2	ZENER DIODE		
D2981-83	1SS133-T2	SI.DIODE		
D2985	MTZJ7.5C-T2	ZENER DIODE		
<b>TRANSISTOR</b>				
Q2402	2SC1740S/0R/-T	SI.TRANSISTOR		
Q2461	2SD1408/0Y/-LB	SI.TRANSISTOR		
Q2462-63	2SA933AS/QR/-T	SI.TRANSISTOR		
Q2501	BSN304-T	F.E.T.		
△ Q2521	2SD2553-LB	SI.TRANSISTOR		H.OUT
Q2541-42	DTC124ESA-T	DIGI.TRANSISTOR		
Q2543	IRF620	F.E.T.		
Q2544-45	2SK2459N-F5A	F.E.T.		
Q2546	DTC124ESA-T	DIGI.TRANSISTOR		
Q2591	2SA949/Y/Z1-T	SI.TRANSISTOR		
Q2592	DTC124ESA-T	DIGI.TRANSISTOR		
Q2593	2SC1740S/QR/-T	SI.TRANSISTOR		
Q2931-32	2SC1740S/QR/-T	SI.TRANSISTOR		
Q2933	2SC2655/Y/-T	SI.TRANSISTOR		
<b>IC</b>				
△ IC2401	LA7841	I.C.(MONO-ANA)		
△ IC2901	STR-F6667B/F7	I.C.		
IC2951	SE140N	I.C.(HYBRID)		
IC2952	BA12T	I.C.(MONO-ANA)		
IC2953	BA17809T	I.C.(MONO-ANA)		
IC2954	BA05T	I.C.(MONO-ANA)		
<b>OTHERS</b>				
△ CP2953	ICP-N75-Y	I.C.PROTECT		
△ CP2956	ICP-N10-Y	I.C.PROTECT		
△ CP2957	ICP-N5-Y	I.C.PROTECT		
K2401	CE41433-001Z	BEADS CORE		
K2501-02	CE41433-001Z	BEADS CORE		
K2503-04	QQR0582-001Z	BEADS CORE		
K2902	QQR0679-001	FERRITE BEADS		
K2951	QQR0872-001Y	FERRITE BEADS		
K2952-54	CE41433-001Z	BEADS CORE		
PC2541-42	PC123F2	I.C.(PH.COUPLER)		
△ PC2901	TLP721F(D4-GR)	I.C.(PH.COUPLER)		
△ RY2931	QSK0099-001	RELAY		
△ TH2901	QAD0120-9R0	P THERMISTOR		

**CRT SOCKET PW BOARD ASS'Y (SJK-3502A-U2)**

△ Symbol No. Part No. Part Name Description

**RESISTOR**

R3101-03	NRSA02J-101X	MG R	100Ω 1/10W J
R3107-09	NRSA02J-392X	MG R	3.9kΩ 1/10W J
R3110-12	NRSA02J-221X	MG R	220Ω 1/10W J
R3113-15	NRSA02J-470X	MG R	47Ω 1/10W J
R3116-18	QRL029J-153	OM R	15kΩ 2W J
R3119-21	QRL029J-183	OM R	18kΩ 2W J
R3125-27	QRZ0107-102Z	C R	1kΩ 1/2W K
R3130	QRG01GJ-101	OM R	100Ω 1W J
R3135	QRZ0107-474Z	C R	470kΩ 1/2W K
R3136	QRE121J-474Y	C R	470kΩ 1/2W J
R3137	QRZ0107-102Z	C R	1kΩ 1/2W K
R3138	QRE121J-105Y	C R	1MΩ 1/2W J
R3151	NRSA02J-102X	MG R	1kΩ 1/10W J
R3152	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R3154	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
R3303	NRSA02J-101X	MG R	100Ω 1/10W J
R3312	NRSA02J-153X	MG R	15kΩ 1/10W J
R3313	NRSA02J-152X	MG R	1.5MΩ 1/10W J
R3314	NRSA02J-151X	MG R	150Ω 1/10W J
R3315	NRSA02J-221X	MG R	220Ω 1/10W J
R3316	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R3317	NRSA02J-470X	MG R	47Ω 1/10W J
R3318	QRJ146J-100X	C R	10Ω 1/4W J
R3319	NRSA02J-470X	MG R	47Ω 1/10W J
R3320	NRSA02J-122X	MG R	1.2kΩ 1/10W J
R3321	NRSA02J-390X	MG R	39Ω 1/10W J
R3322	QRE121J-2R7Y	C R	2.7Ω 1/2W J
R3323-24	QRE121J-563Y	C R	56kΩ 1/2W J
R3325	NRSA02J-122X	MG R	1.2kΩ 1/10W J
R3326	QRE121J-2R7Y	C R	2.7Ω 1/2W J
R3327	NRSA02J-390X	MG R	39Ω 1/10W J
R3328	NRSA02J-121X	MG R	120Ω 1/10W J
R3329	QRL029J-391	OM R	390Ω 2W J

**CAPACITOR**

C3101-03	NDC21HJ-471X	C CAP.	470pF 50V J
C3104	QETN1CM-107Z	E CAP.	100μF 16V M
C3105	QETN1EM-476Z	E CAP.	47μF 25V M
C3107	QETN1HM-106Z	E CAP.	10μF 50V M
C3113	QCB0131-222	C CAP.	2200pF 2000V K
C3114	QETN2EM-225	E CAP.	2.2μF 250V M
C3115	QETM2EM-106	E CAP.	10μF 250V M
C3116	NDC21HJ-471X	C CAP.	470pF 50V J
C3304	NCB21HK-103X	C CAP.	0.01μF 50V K
C3305	QETN1HM-335Z	E CAP.	3.3μF 50V M
C3306	QETN1CM-107Z	E CAP.	100μF 16V M
C3307	NDC21HJ-5R0X	C CAP.	5.0pF 50V J
C3308	QETN2CM-106Z	E CAP.	10μF 160V M
C3309	QCB32HK-472Z	C CAP.	4700pF 500V K
C3310	QETN2CM-106Z	E CAP.	10μF 160V M
C3311	NDC21HJ-821X	C CAP.	820pF 50V J
C3312	QCB32HK-472Z	C CAP.	4700pF 500V K
C3313	NDC21HJ-561X	C CAP.	560pF 50V J
C3314	QETN1CM-107Z	E CAP.	100μF 16V M
C3315	QCS32HJ-680Z	C CAP.	68pF 500V J
C3316	QETN1CM-107Z	E CAP.	100μF 16V M
C3317	QETN1AM-337Z	E CAP.	330pF 10V M

**COIL**

L3301	QQL244J-391Z	COIL	390μH
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△ Symbol No. Part No. Part Name Description

**DIODE**

D3151	MA111-X	SI.DIODE
D3153-55	MA111-X	SI.DIODE
D3156	MA3047/H/-X	ZENER DIODE
D3163	MA3150/M/-X	ZENER DIODE
D3164	1SR35-400A-T2	SI.DIODE
D3302-03	RH1S-T3	SI.DIODE

**TRANSISTOR**

Q3101-03	2SC1740S/QR/-T	SI.TRANSISTOR
Q3104-06	2SC4544-LB	SI.TRANSISTOR
Q3151	2SA1037AK/QR/-X	SI.TRANSISTOR
Q3152	2SC4682-T	SI.TRANSISTOR
Q3304-05	2SC1740S/QR/-T	SI.TRANSISTOR
Q3306	2SA933AS/QR/-T	SI.TRANSISTOR
Q3307	2SA1837	SI.TRANSISTOR
Q3308	2SC4793	SI.TRANSISTOR

**OTHERS**

△ FR3330	QRZ9021-561	FUSI. RESISTOR	560 Ω 1W J
K3101	CE41433-001Z	BEADS CORE	
K3301-04	CE41492-001Z	CHOKE COIL	
△ SK3001	CE42670-001	C.R.T. SOCKET	
W3003	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
W3006	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
W3012	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
W3014	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
W3016-17	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
W3019	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
W3022	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
Y3152	NRSA02J-0R0X	MG R	0.0Ω 1/10W J

AV-28WFT1EPG/EPS/EIS

**FRONT CONTROL PW BOARD ASS'Y  
(SJK-8502A-U2)**

△	Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>				
R8301	NRSA02J-750X	MG R	75Ω 1/10W J	
R8801-02	NRSA02J-561X	MG R	560Ω 1/10W J	
R8804-06	NRSA02J-102X	MG R	1kΩ 1/10W J	
R8807-09	NRSA02J-103X	MG R	10kΩ 1/10W J	
R8810-11	QRE121J-271Y	C R	270Ω 1/2W J	
R8812-13	NRSA02J-102X	MG R	1kΩ 1/10W J	
R8815-16	NRSA02J-471X	MG R	470Ω 1/10W J	
R8851	NRSA02J-682X	MG R	6.8kΩ 1/10W J	
R8861	NRSA02J-562X	MG R	5.6kΩ 1/10W J	
R8863	NRSA02J-472X	MG R	4.7kΩ 1/10W J	
R8864	NRSA02J-222X	MG R	2.2kΩ 1/10W J	

**CAPACITOR**

C8301-02	NCB21HK-472X	C CAP.	4700pF 50V K	
C8303	NCB21EK-104X	C CAP.	0.1μF 25V K	
C8801-02	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	
C8805	NCB21HK-103X	C CAP.	0.01μF 50V K	
C8851	NCB21EK-104X	C CAP.	0.1μF 25V K	
C8852	QETN1CM-107Z	E CAP.	100μF 16V M	
C8861	QETN1HM-106Z	E CAP.	10μF 50V M	
△ C8901	QFZ9040-474	MF CAP.	0.47μFAC275V M	

**COIL**

L8301	QL211K-270Y	PEAKING COIL	27μH	
L8302	QQR0716-001Z	LEAD CORE		
L8303	QL211K-270Y	PEAKING COIL	27μH	
L8801-02	QL211K-5R6Y	PEAKING COIL	5.6μH	
L8803	QQR0716-001Z	LEAD CORE		

**DIODE**

D8801	SPR-39MVWF	L.E.D.		
D8802	SLR-342YY-T16	L.E.D. (YLW)		
D8803	SLR-342DU-T16	L.E.D. (ORG)		
D8804	SLR-342MG-T16	L.E.D. (GRN)		
D8805	MA111-X	SI.DIODE		
D8851	MA3068/M-X	ZENER DIODE		
D8861	MA111-X	SI.DIODE		
D8862	P1241-04	C.D.S.		

**TRANSISTOR**

Q8801-02	DTA124EKA-X	DIGI TRANSISTOR		
Q8803	2SA1037AK/QR/-X	SI.TRANSISTOR		
Q8804	DTC124EKA-X	DIGI. TRANSISTOR		
Q8805	2SA1037AK/QR/-X	SI.TRANSISTOR		
Q8861	2SA1037AK/QR/-X	SI.TRANSISTOR		

**IC**

IC8851	GP1U281Q	IFR DETECT UNIT		
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**OTHERS**

△ CN8001	LC30596-001B-C	LED HOLDER		
△ F8901	CM35921-005-H	CDS HOLDER		
J8301	CEM002-001Z	FUSE CLIP		
J8801	QGF1216C1-25	FCF CONNECTOR		
△ LF8901	QMF5102-3R1551	FUSE	3.15A	
J8301	QN20453-001	AV JACK		
J8801	QMS3004-C01	HEADPHONE JACK		
△ LF8901	QQR1095-001	LINE FILTER		
S8801	QSW0619-003Z	PUSH SWITCH		
S8802	QSW0619-003Z	PUSH SWITCH	▽(DOWN)	
S8803	QSW0619-003Z	PUSH SWITCH	△(UP)	
△ S8901	QSW0824-001	PUSH SWITCH	MAIN POWER	
W8015	NRSA02J-OR0X	MG R	0.02 1/10W J	
W8029	NRSA02J-OR0X	MG R	0.02 1/10W J	

**AV SEL. PW BOARD ASS'Y (SJK0S701A-U2)**

△	Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>				
R0101-08	NRSA02J-750X	MG R	75Ω 1/10W J	
R0110	NRSA02J-823X	MG R	82kΩ 1/10W J	
R0112	NRSA02J-823X	MG R	82kΩ 1/10W J	
R0113	NRSA02J-750X	MG R	75Ω 1/10W J	
R0114	NRSA02J-473X	MG R	47kΩ 1/10W J	
R0115-16	NRSA02J-223X	MG R	22kΩ 1/10W J	
R0117-18	NRSA02J-823X	MG R	82kΩ 1/10W J	
R0119-20	NRSA02J-391X	MG R	390Ω 1/10W J	
R0123	NRSA02J-104X	MG R	100kΩ 1/10W J	
R0124-25	NRSA02J-101X	MG R	100Ω 1/10W J	
R0126	NRSA02J-333X	MG R	33kΩ 1/10W J	
R0127	NRSA02J-101X	MG R	100Ω 1/10W J	
R0128	NRSA02J-103X	MG R	10kΩ 1/10W J	
R0129	NRSA02J-683X	MG R	68kΩ 1/10W J	
R0130	NRSA02J-473X	MG R	47kΩ 1/10W J	
R0131	NRSA02J-273X	MG R	27kΩ 1/10W J	
R0132	NRSA02J-153X	MG R	15kΩ 1/10W J	
R0133	NRSA02J-222X	MG R	2.2kΩ 1/10W J	
R0134	NRSA02J-333X	MG R	33kΩ 1/10W J	
R0135	NRSA02J-222X	MG R	2.2kΩ 1/10W J	
R0136-37	NRSA02J-333X	MG R	33kΩ 1/10W J	
R0138	NRSA02J-473X	MG R	47kΩ 1/10W J	
R0139	NRSA02J-683X	MG R	68kΩ 1/10W J	
R0140	NRSA02J-103X	MG R	10kΩ 1/10W J	
R0141	NRSA02J-153X	MG R	15kΩ 1/10W J	
R0142	NRSA02J-223X	MG R	22kΩ 1/10W J	
R0143	NRSA02J-473X	MG R	47kΩ 1/10W J	
R0144	NRSA02J-273X	MG R	27kΩ 1/10W J	
R0146	NRSA02J-391X	MG R	390Ω 1/10W J	
R0148	NRSA02J-391X	MG R	390Ω 1/10W J	
R0151	NRSA02J-104X	MG R	100kΩ 1/10W J	
R0152	NRSA02J-222X	MG R	2.2kΩ 1/10W J	
R0153	NRSA02J-333X	MG R	33kΩ 1/10W J	
R0154	NRSA02J-222X	MG R	2.2kΩ 1/10W J	
R0155	NRSA02J-333X	MG R	33kΩ 1/10W J	
R0156-69	NRSA02J-101X	MG R	100Ω 1/10W J	
R0170	NRSA02J-333X	MG R	33kΩ 1/10W J	
R0171	NRSA02J-222X	MG R	2.2kΩ 1/10W J	
R0172	NRSA02J-473X	MG R	47kΩ 1/10W J	
R0173	NRSA02J-683X	MG R	68kΩ 1/10W J	
R0174	NRSA02J-103X	MG R	10kΩ 1/10W J	
R0175	NRSA02J-153X	MG R	15kΩ 1/10W J	
R0176	NRSA02J-473X	MG R	47kΩ 1/10W J	
R0177	NRSA02J-273X	MG R	27kΩ 1/10W J	
R0180-83	NRSA02J-101X	MG R	100Ω 1/10W J	
R0184	NRSA02J-333X	MG R	33kΩ 1/10W J	
R0185	NRSA02J-222X	MG R	2.2kΩ 1/10W J	
R0186	NRSA02J-333X	MG R	33kΩ 1/10W J	
R0188	NRSA02J-101X	MG R	100Ω 1/10W J	
R0189-90	NRSA02J-221X	MG R	220Ω 1/10W J	
R0191-92	NRSA02J-562X	MG R	5.6kΩ 1/10W J	
R0193-94	NRSA02J-102X	MG R	1kΩ 1/10W J	
R0195	QRG01GJ-101	OM R	100Ω 1W J	
R0197	QRK126J-181X	C R	180Ω 1/2W J	
R0198	NRSA02J-750X	MG R	75Ω 1/10W J	
R0199	NRSA02J-101X	MG R	100Ω 1/10W J	
R0202	QRK126J-151X	C R	150Ω 1/2W J	
R0203-05	NRSA02J-750X	MG R	75Ω 1/10W J	
R0207	NRSA02J-222X	MG R	2.2kΩ 1/10W J	
R0208	NRSA02J-333X	MG R	33kΩ 1/10W J	
R0209	NRSA02J-222X	MG R	2.2kΩ 1/10W J	
R0210	NRSA02J-333X	MG R	33kΩ 1/10W J	
R0211-12	NRSA02J-103X	MG R	10kΩ 1/10W J	
R0301	NRSA02J-103X	MG R	10kΩ 1/10W J	
R0302	NRSA02J-562X	MG R	5.6kΩ 1/10W J	
R0303-04	NRSA02J-222X	MG R	2.2kΩ 1/10W J	
R0305	NRSA02J-103X	MG R	10kΩ 1/10W J	
R0309	NRSA02J-562X	MG R	5.6kΩ 1/10W J	

△	Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>				
R0310	NRSA02J-392X	MG R	3.9kΩ 1/10W J	
R0313	NRSA02J-101X	MG R	100Ω 1/10W J	
R0314	NRSA02J-473X	MG R	47kΩ 1/10W J	
R0315	NRSA02J-102X	MG R	1kΩ 1/10W J	
R0316	NRSA02J-122X	MG R	1.2kΩ 1/10W J	
R0317	NRSA02J-273X	MG R	27kΩ 1/10W J	
R0318-19	NRSA02J-102X	MG R	1kΩ 1/10W J	
R0320	NRSA02J-473X	MG R	47kΩ 1/10W J	
R0321	NRSA02J-101X	MG R	100Ω 1/10W J	
R0322	NRSA02J-273X	MG R	27kΩ 1/10W J	
R0323	NRSA02J-122X	MG R	1.2kΩ 1/10W J	
R0324	NRSA02J-102X	MG R	1kΩ 1/10W J	
R0325	NRSA02J-682X	MG R	6.8kΩ 1/10W J	
R0603	NRSA02J-102X	MG R	1kΩ 1/10W J	
R0606	QRG01GJ-181	OM R	180Ω 1W J	
R0607	NRSA02J-123X	MG R	12kΩ 1/10W J	
R0608	NRSA02J-181X	MG R	180Ω 1/10W J	
R0609	NRSA02J-123X	MG R	12kΩ 1/10W J	
R0610	NRSA02J-561X	MG R	560Ω 1/10W J	
R0614-15	NRSA02J-223X	MG R	22kΩ 1/10W J	
R0617-18	NRSA02J-103X	MG R	10kΩ 1/10W J	
R0620	NRSA02J-103X	MG R	10kΩ 1/10W J	
R0622-23	NRSA02J-223X	MG R	22kΩ 1/10W J	
R0624	NRSA02J-104X	MG R	100kΩ 1/10W J	
R0628	NRSA02J-8R0X	MG R	0.002 1/10W J	
R0629-30	NRSA02J-101X	MG R	1000 1/10W J	
R0631	NRSA02J-122X	MG R	1.2kΩ 1/10W J	
R0632	NRSA02J-473X	MG R	47kΩ 1/10W J	
R0633	NRSA02J-272X	MG R	2.7kΩ 1/10W J	
R0634	NRSA02J-473X	MG R	47kΩ 1/10W J	
R0635	NRSA02J-272X	MG R	2.7kΩ 1/10W J	
R0636	NRSA02J-682X	MG R	6.8kΩ 1/10W J	
R0638	NRSA02J-682X	MG R	6.8kΩ 1/10W J	
R0647-48	NRSA02J-103X	MG R	10kΩ 1/10W J	
R0649-50	NRSA02J-822X	MG R	8.2kΩ 1/10W J	
<b>CAPACITOR</b>				
C0101	NCB21HK-472X	C CAP.	4700pF 50V K	
C0102	QETN1CM-477Z	E CAP.	4700pF 16V M	
C0103-05	QETN1HM-106Z	E CAP.	10μF 50V M	
C0106-09	NCB21HK-472X	C CAP.	4700pF 50V K	
C0110	QETN1CM-477Z	E CAP.	4700pF 16V M	
C0111-15	NCB21HK-472X	C CAP.	4700pF 50V K	
C0116-17	QETN1HM-106Z	E CAP.	10μF 50V M	
C0118	NCB21HK-102X	C CAP.	1000pF 50V K	
C0119	QETN1HM-105Z	E CAP.	1μF 50V M	
C0120	QETN1HM-106Z	E CAP.	10μF 50V M	
C0121	QETN1HM-105Z	E CAP.	1μF 50V M	
C0122	NCB21HK-103X	C CAP.	0.01μF 50V K	
C0123	NCB21HK-102X	C CAP.	1000pF 50V K	
C0124-25	QETN1HM-106Z	E CAP.	10μF 50V M	
C0126	QETN1HM-105Z	E CAP.	1μF 50V M	
C0127	QETN1HM-106Z	E CAP.	10μF 50V M	
C0128	QETN1HM-105Z	E CAP.	1μF 50V M	
C0129	QETN1HM-106Z	E CAP.	10μF 50V M	
C0130	QETN1HM-105Z	E CAP.	1μF 50V M	
C0131	NCB21HK-102X	C CAP.	1000pF 50V K	
C0132	QETN1HM-105Z	E CAP.	1μF 50V M	
C0133	NCB21HK-103X	C CAP.	0.01μF 50V K	
C0136	QETN1HM-106Z	E CAP.	10μF 50V M	
C0137	QENC1EM-106Z	BP E CAP.	10μF 25V M	
C0139	QENC1EM-106Z	BP E CAP.	10μF 25V M	
C0140	QETN1CM-107Z	E CAP.	100μF 16V M	
C0141	NCB21HK-103X	C CAP.	0.01μF 50V K	
C0142	NCF21CZ-105X	C CAP.	1μF 16V Z	
C0143	QENC1EM-106Z	BP E CAP.	10μF 25V M	
C0144	NCF21CZ-105X	C CAP.	1μF 16V Z	
C0145-46	QETN1CM-107Z	E CAP.	100μF 16V M	

△	Symbol No.	Part No.	Part Name	Description
<b>CAPACITOR</b>				
C0147	QETN1CM-477Z	E CAP.	470μF 16V M	
C0149	NCB21HK-103X	C CAP.	0.01μF 50V K	
C0150-51	QETN1HM-106Z	E CAP.	10μF 50V M	
C0152-53	QETN1HM-105Z	E CAP.	1μF 50V M	
C0154-55	NDC21HJ-680X	C CAP.	68pF 50V J	
C0156	NCB21HK-103X	C CAP.	0.01μF 50V K	
C0301	NDC21HJ-271X	C CAP.	270pF 50V J	
C0306-07	NCB21EK-104X	C CAP.	0.1μF 25V K	
C0308	NCB21HK-103X	C CAP.	0.01μF 50V K	
C0310-11	QETN1HM-106Z	E CAP.	10μF 50V M	
C0312	NCB21EK-103X	C CAP.	0.01μF 50V K	
C0313	NCF21EK-104X	C CAP.	0.1μF 25V K	
C0610	NDC21HJ-821X	C CAP.	820pF 50V J	
C0611-12	NDC21HJ-470X	C CAP.	47pF 50V J	
C0614	NDC21HJ-180X	C CAP.	18pF 50V J	
C0616	QETN1CM-107Z	E CAP.	100pF 16V M	
C0617	NCB21EK-104X	C CAP.	0.1μF 25V K	
C0618	QETN1HM-106Z	E CAP.	10μF 50V M	
C0619	NCB21EK-104X	C CAP.	0.1μF 25V K	
C0620	QETN1HM-106Z	E CAP.	10μF 50V M	
C0621-22	NCF21CZ-105X	C CAP.	1μF 16V Z	
C0623	NCB21EK-104X	C CAP.	0.1μF 25V K	
C0624	QETN1HM-106Z	E CAP.	10μF 50V M	
C0625	NCB21HK-332X	C CAP.	3300pF 50V K	
C0626	NCB21HK-333X	C CAP.	0.033μF 50V K	
C0627	NCF21CZ-105X	C CAP.	1μF 16V Z	
C0628	QETN1EM-476Z	E CAP.	47pF 25V M	
C0629	QETN1HM-106Z	E CAP.	10μF 50V M	
C0630-31	NCB21HK-102X	C CAP.	1000pF 50V K	
C0632	NCB21EK-104X	C CAP.	0.1μF 25V K	
C0633	QETN1HM-106Z	E CAP.	10μF 50V M	
C0634-35	NCB21HK-103X	C CAP.	0.01μF 50V K	
C0636	NDC21HJ-2R0X	C CAP.	2.0pF 50V J	
C0637	NCB21HK-332X	C CAP.	3300pF 50V K	
C0638	NCB21HK-333X	C CAP.	0.033μF 50V K	
C0639	QETN1HM-106Z	E CAP.	10μF 50V M	
C0640	QETN1EM-476Z	E CAP.	47μF 25V M	
C0641	NCB21EK-104X	C CAP.	0.1μF 25V K	
C0642	NDC21HJ-2R0X	C CAP.	2.0pF 50V J	
C0643	NCF21CZ-105X	C CAP.	1μF 16V Z	
C0645	NCB21HK-103X	C CAP.	0.01μF 50V K	
C0646	NCB21EK-104X	C CAP.	0.1μF 25V K	
C0647	QETN1CM-107Z	E CAP.	100μF 16V M	
C0648	NCB21EK-104X	C CAP.	0.1μF 25V K	
C0649	QETN1CM-107Z	E CAP.	100μF 16V M	
C0650	NDC21HJ-221X	C CAP.	220pF 50V J	
C0651	NCB21HK-562X	C CAP.	5600pF 50V K	
C0652	QETN1EM-476Z	E CAP.	47μF 25V M	
C0653	NDC21HJ-221X	C CAP.	220pF 50V J	
C0654	NCB21HK-562X	C CAP.	5600pF 50V K	
C0659-60	NCF21CZ-105X	C CAP.	1μF 16V Z	
C0677-78	NCB21HK-102X	C CAP.	1000pF 50V K	
<b>COIL</b>				
L0112-14	QQR0716-001Z	LEAD CORE		
L0301	QQL01BK-221Z	PEAKING COIL		220μH
L0601	QQL01BK-220Z	PEAKING COIL		22μH
L0602	QQL01BK-180Z	PEAKING COIL		18μH
L0604	QQL01BK-100Z	PEAKING COIL		10μH
L0605	QQL01BK-4R7Z	PEAKING COIL		4.7μH
<b>DIODE</b>				
D0101-13	MA3120/M-X	ZENER DIODE		
D0601	RD8.2E/B2J-T2	ZENER DIODE		
D0602	MA3062/M-X	ZENER DIODE		

△ Symbol No.	Part No.	Part Name	Description
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**TRANSISTOR**

Q0101	DTC323TK-X	DIGI. TRANSISTOR	
Q0102	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q0103	DTC323TK-X	DIGI. TRANSISTOR	
Q0104-07	2SC2412K/QR/-X	SI. TRANSISTOR	
Q0108	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q0109-10	DTC323TK-X	DIGI. TRANSISTOR	
Q0111-12	2SC2412K/QR/-X	SI. TRANSISTOR	
Q0116	2SA933AS/QR/-T	SI. TRANSISTOR	
Q0118	2SC1740S/QR/-T	SI. TRANSISTOR	
Q0119-20	2SC2412K/QR/-X	SI. TRANSISTOR	
Q0301	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q0302-03	DTC124EKA-X	DIGI. TRANSISTOR	
Q0304-05	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q0306	2SC2412K/QR/-X	SI. TRANSISTOR	
Q0307	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q0308	2SC2412K/QR/-X	SI. TRANSISTOR	
Q0601	2SC2412K/QR/-X	SI. TRANSISTOR	
Q0602	DTC323TK-X	DIGI. TRANSISTOR	
Q0603	2SA1037AK/QR/-X	SI. TRANSISTOR	

**IC**

IC0101	CXA2089Q-X	I C	
IC0302	TDA9181/N1-X	I C	
IC0602	NJM2150AN-X	I.C. (MONO-ANA)	
IC0603	MSP3415D-QG-B3X	I C	
IC0604	BA4558F-X	I.C. (MONO-ANA)	

**OTHERS**

J0001	CEX45309	SCART CONNECTOR	
J0002	CE40529-009J1	21 PIN SOCKET	
K0601	CE41433-001Z	BEADS CORE	
LC0601-02	CE42482-103Y	EMI FILTER	
W0001-10	NRSA02J-OROX	MG R	0.02 1/10W J
W0023	NRSA02J-OROX	MG R	0.02 1/10W J
W0026	NRSA02J-OROX	MG R	0.02 1/10W J
W0029	NRSA02J-OROX	MG R	0.02 1/10W J
W0032	NRSA02J-OROX	MG R	0.02 1/10W J
W0041	NRSA02J-OROX	MG R	0.02 1/10W J
W0052	NRSA02J-OROX	MG R	0.02 1/10W J
W0065	NRSA02J-OROX	MG R	0.02 1/10W J
W0076-88	NRSA02J-OROX	MG R	0.02 1/10W J
W0110	NRSA02J-OROX	MG R	0.02 1/10W J
W0113-14	NRSA02J-OROX	MG R	0.02 1/10W J
W0119	NRSA02J-OROX	MG R	0.02 1/10W J
W0125	NRSA02J-OROX	MG R	0.02 1/10W J
W0129-30	NRSA02J-OROX	MG R	0.02 1/10W J
W0136-39	NRSA02J-OROX	MG R	0.02 1/10W J
W0142	NRSA02J-OROX	MG R	0.02 1/10W J
W0145-48	NRSA02J-OROX	MG R	0.02 1/10W J
W0157	NRSA02J-OROX	MG R	0.02 1/10W J
W0160	NRSA02J-OROX	MG R	0.02 1/10W J
X0601	CE42546-001Z	CRYSTAL	
Y0606	NRSA02J-OROX	MG R	0.02 1/10W J
Y0616	NRSA02J-OROX	MG R	0.02 1/10W J

# AV-28WFT1EKS / AV-28WFT1EK

## PRINTED WIRING BOARD PARTS LIST

### MAIN PW BOARD ASSY (SJK-1902A-U2)

△ Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>			
R1001-06	NRSA02J-102X	MG R	1kΩ 1/10W J
R1007	NRSA02J-104X	MG R	100kΩ 1/10W J
R1008	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
R1301	NRSA02J-103X	MG R	10kΩ 1/10W J
R1302	NRSA02J-183X	MG R	18kΩ 1/10W J
R1303	NRSA02J-153X	MG R	15kΩ 1/10W J
R1304	QRG01GJ-121	OM R	120Ω 1W J
R1305	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1306	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1307-08	NRSA02J-102X	MG R	1kΩ 1/10W J
R1309	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1310-11	NRSA02J-391X	MG R	390Ω 1/10W J
R1312-13	NRSA02J-101X	MG R	100Ω 1/10W J
R1314	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1316	NRSA02J-224X	MG R	220kΩ 1/10W J
R1317	NRSA02J-101X	MG R	100Ω 1/10W J
R1318-21	NRSA02J-102X	MG R	1kΩ 1/10W J
R1327	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
R1328-29	NRSA02J-102X	MG R	1kΩ 1/10W J
R1330	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1331	NRSA02J-333X	MG R	33kΩ 1/10W J
R1332-33	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1335	NRSA02J-273X	MG R	27kΩ 1/10W J
R1336	NRSA02J-103X	MG R	10kΩ 1/10W J
R1337	NRSA02J-102X	MG R	1kΩ 1/10W J
R1338	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1339	NRSA02J-102X	MG R	1kΩ 1/10W J
R1340-41	NRSA02J-333X	MG R	33kΩ 1/10W J
R1342	NRSA02J-152X	MG R	1.5kΩ 1/10W J
R1343	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R1344	NRSA02J-471X	MG R	47Ω 1/10W J
R1345	NRSA02J-102X	MG R	1kΩ 1/10W J
R1346	NRSA02J-223X	MG R	22kΩ 1/10W J
R1401-02	NRSA02J-103X	MG R	10kΩ 1/10W J
R1403	NRSA02J-102X	MG R	1kΩ 1/10W J
R1404	NRSA02J-183X	MG R	18kΩ 1/10W J
R1405	NRSA02J-223X	MG R	22kΩ 1/10W J
R1409	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
R1411	NRVA02D-473X	MF R	47kΩ 1/10W D
R1413	NRVA02D-223X	MF R	22kΩ 1/10W D
R1414	NRVA02D-101X	MF R	100Ω 1/10W D
R1415	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1416	NRSA02J-101X	MG R	100Ω 1/10W J
R1417	NRSA02J-223X	MG R	22kΩ 1/10W J
R1418	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R1419	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1420	NRSA02J-183X	MG R	18kΩ 1/10W J
R1501	NRSA02J-621X	MG R	620Ω 1/10W J
R1502	NRSA02J-103X	MG R	10kΩ 1/10W J
R1503	NRSA02J-104X	MG R	100kΩ 1/10W J
R1504	NRSA02J-103X	MG R	10kΩ 1/10W J
R1505-06	NRSA02J-221X	MG R	220Ω 1/10W J
R1507	NRSA02J-102X	MG R	1kΩ 1/10W J
R1508-09	NRSA02J-223X	MG R	22kΩ 1/10W J
R1511	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
R1514	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1516	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1517	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1518	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R1519	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1520	NRSA02J-152X	MG R	1.5kΩ 1/10W J
R1551	QRE121J-100Y	C R	10Ω 1/2W J
R1552	NRSA02J-124X	MG R	120kΩ 1/10W J

△ Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>			
R1553	NRSA02J-683X	MG R	68kΩ 1/10W J
R1554	NRSA02J-333X	MG R	33kΩ 1/10W J
R1555	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1556	NRSA02J-154X	MG R	150kΩ 1/10W J
R1557-58	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1559	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
R1560	NRSA02J-104X	MG R	100kΩ 1/10W J
R1561	QRE121J-100Y	C R	10Ω 1/2W J
R1571	NRSA02J-101X	MG R	100Ω 1/10W J
R1572	NRSA02J-133X	MG R	13kΩ 1/10W J
R1573	NRSA02J-821X	MG R	82Ω 1/10W J
R1602	NRSA02J-104X	MG R	100kΩ 1/10W J
R1604	NRSA02J-393X	MG R	39kΩ 1/10W J
R1605	NRSA02J-681X	MG R	68Ω 1/10W J
R1606	NRSA02J-393X	MG R	39kΩ 1/10W J
R1607	NRSA02J-681X	MG R	68Ω 1/10W J
R1608-09	NRSA02J-223X	MG R	22kΩ 1/10W J
R1610-11	NRSA02J-822X	MG R	8.2kΩ 1/10W J
R1633	NRSA02J-273X	MG R	27kΩ 1/10W J
R1638	NRSA02J-473X	MG R	47kΩ 1/10W J
R1648	NRSA02J-104X	MG R	100kΩ 1/10W J
R1649	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R1650	NRSA02J-104X	MG R	100kΩ 1/10W J
R1660	QRE126J-2R2X	C R	2.2Ω 1/2W J
R1661	NRSA02J-103X	MG R	10kΩ 1/10W J
R1663	NRSA02J-561X	MG R	56Ω 1/10W J
R1664	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1683	QRE126J-2R2X	C R	2.2Ω 1/2W J
R1689	NRSA02J-473X	MG R	47kΩ 1/10W J
R1690	QRG01GJ-270	OM R	27Ω 1W J
R1701	NRSA02J-221X	MG R	220Ω 1/10W J
R1702	NRSA02J-822X	MG R	8.2kΩ 1/10W J
R1703	NRSA02J-273X	MG R	27kΩ 1/10W J
R1704	NRSA02J-473X	MG R	47kΩ 1/10W J
R1705	NRSA02J-102X	MG R	1kΩ 1/10W J
R1706	NRSA02J-223X	MG R	22kΩ 1/10W J
R1707-12	NRSA02J-103X	MG R	10kΩ 1/10W J
R1713-14	NRSA02J-102X	MG R	1kΩ 1/10W J
R1716	NRSA02J-102X	MG R	1kΩ 1/10W J
R1717	NRSA02J-104X	MG R	100kΩ 1/10W J
R1718-19	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R1720	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1721	NRSA02J-103X	MG R	10kΩ 1/10W J
R1722	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1723	NRSA02J-102X	MG R	1kΩ 1/10W J
R1724-28	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1729-31	NRSA02J-221X	MG R	220Ω 1/10W J
R1732	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1733	NRSA02J-103X	MG R	10kΩ 1/10W J
R1734	NRSA02J-223X	MG R	22kΩ 1/10W J
R1736-39	NRSA02J-103X	MG R	10kΩ 1/10W J
R1740	NRSA02J-331X	MG R	330Ω 1/10W J
R1741-44	NRSA02J-102X	MG R	1kΩ 1/10W J
R1745-47	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1748-52	NRSA02J-221X	MG R	220Ω 1/10W J
R1753	NRSA02J-102X	MG R	1kΩ 1/10W J
R1754	NRSA02J-683X	MG R	68kΩ 1/10W J
R1755	NRSA02J-102X	MG R	1kΩ 1/10W J
R1756	NRSA02J-103X	MG R	10kΩ 1/10W J
R1758	NRSA02J-103X	MG R	10kΩ 1/10W J
R1759	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1760	NRSA02J-103X	MG R	10kΩ 1/10W J
R1762-63	NRSA02J-103X	MG R	10kΩ 1/10W J

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△ Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>			
R1764-66	NRSA02J-221X	MG R	220Ω 1/10W J
R1767	NRSA02J-103X	MG R	10kΩ 1/10W J
R1770	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R1771-73	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1774-75	NRSA02J-393X	MG R	39kΩ 1/10W J
R1777-79	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1780	NRSA02J-102X	MG R	1kΩ 1/10W J
R1784	NRSA02J-473X	MG R	47kΩ 1/10W J
R1785	NRSA02J-223X	MG R	22kΩ 1/10W J
R1786	NRSA02J-473X	MG R	47kΩ 1/10W J
R1787	NRSA02J-332X	MG R	3.3kΩ 1/10W J
R1788	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R1789	NRSA02J-473X	MG R	47kΩ 1/10W J
R1790	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R1801-02	NRSA02J-103X	MG R	10kΩ 1/10W J
R1804	NRSA02J-473X	MG R	47kΩ 1/10W J
R1805	NRSA02J-333X	MG R	33kΩ 1/10W J
R1834	NRSA02J-473X	MG R	47kΩ 1/10W J
R1835	NRSA02J-152X	MG R	1.5kΩ 1/10W J
R1837	NRSA02J-102X	MG R	1kΩ 1/10W J
R1838	NRSA02J-393X	MG R	39kΩ 1/10W J
R1839	NRSA02J-332X	MG R	3.3kΩ 1/10W J
R1840	NRSA02J-152X	MG R	1.5kΩ 1/10W J
R1841	NRSA02J-331X	MG R	33Ω 1/10W J
R1842	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1843	NRSA02J-332X	MG R	3.3kΩ 1/10W J
R1844	NRSA02J-392X	MG R	3.9kΩ 1/10W J
R1845	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R1846	NRSA02J-103X	MG R	10kΩ 1/10W J
R1847-48	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1849	NRSA02J-823X	MG R	82kΩ 1/10W J
R1850-56	NRSA02J-102X	MG R	1kΩ 1/10W J
R1857	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1858	NRSA02J-223X	MG R	22kΩ 1/10W J
R1859	NRSA02J-823X	MG R	82kΩ 1/10W J
R1871	NRSA02J-102X	MG R	1kΩ 1/10W J
R1872-73	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1874	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R1875	NRSA02J-104X	MG R	100kΩ 1/10W J
R1876	NRSA02J-102X	MG R	1kΩ 1/10W J
R1877	NRSA02J-393X	MG R	39kΩ 1/10W J
R1878-80	NRSA02J-152X	MG R	1.5kΩ 1/10W J
R1881-82	NRSA02J-331X	MG R	33Ω 1/10W J
R1883	NRSA02J-102X	MG R	1kΩ 1/10W J
R1884	NRSA02J-331X	MG R	33Ω 1/10W J

△ Symbol No.	Part No.	Part Name	Description
<b>CAPACITOR</b>			
C1001	NCB21HK-222X	C CAP.	2200pF 50V K
C1003	NCB21EK-104X	C CAP.	0.1μF 25V K
C1004	QETN1CM-108Z	E CAP.	1000pF 16V M
C1005	QETN1CM-107Z	E CAP.	100pF 16V M
C1006	QETN1HM-106Z	E CAP.	10pF 50V M
C1007	NCB21EK-104X	C CAP.	0.1μF 25V K
C1008	QETN1HM-106Z	E CAP.	10pF 50V M
C1009	NCB21EK-104X	C CAP.	0.1μF 25V K
C1010	QETN1CH-107Z	E CAP.	100pF 16V M
C1301	NCB21EK-104X	C CAP.	0.1μF 25V K
C1302	NCB21HK-823X	CHIP CAP.	0.082μF 50V K
C1303	QETN1EM-476Z	E CAP.	47pF 25V M
C1304	NCB21HK-103X	C CAP.	0.01μF 50V K
C1305	QETN1CM-107Z	E CAP.	100pF 16V M
C1306	NCB21HK-103X	C CAP.	0.01μF 50V K
C1307	QETN1CM-477Z	E CAP.	470pF 16V M
C1308	NDC21HJ-120X	C CAP.	12pF 50V J
C1309	QETN1HM-475Z	E CAP.	4.7pF 50V M
C1310	NCB21HK-103X	C CAP.	0.01μF 50V K
C1311	QETN1HM-106Z	E CAP.	10pF 50V M
C1312	NDC21HJ-680X	C CAP.	68pF 50V J
C1313	QETN1CM-107Z	E CAP.	100pF 16V M
C1314	NCB21HK-103X	C CAP.	0.01μF 50V K
C1315	QETN1HM-106Z	E CAP.	10pF 50V M
C1319	QETN1CM-107Z	E CAP.	100pF 16V M
C1320	NCB21HK-103X	C CAP.	0.01μF 50V K
C1321-23	NCB21EK-104X	C CAP.	0.1μF 25V K
C1324-26	QETN1HM-105Z	E CAP.	1pF 50V M
C1327	QETN1HM-475Z	E CAP.	4.7pF 50V M
C1328	QETN1CM-107Z	E CAP.	100pF 16V M
C1329	QETN1EM-476Z	E CAP.	47pF 25V M
C1331	QETN1HM-105Z	E CAP.	1pF 50V M
C1332	NCB21HK-103X	C CAP.	0.01μF 50V K
C1333	NCB21EK-104X	C CAP.	0.1μF 25V K
C1401	QETN1HM-105Z	E CAP.	1pF 50V M
C1403-05	NCB21HK-103X	C CAP.	0.01μF 50V K
C1406	QFV71HJ-184Z	MF CAP.	0.18μF 50V J
C1407	QFV71HJ-564Z	MF CAP.	0.56μF 50V J
C1408	NCB21HK-153X	C CAP.	0.015μF 50V K
C1501	QETN1CM-107Z	E CAP.	100pF 16V M
C1502-04	NCB21HK-103X	C CAP.	0.01μF 50V K
C1505	NCB21HK-822X	C CAP.	8200pF 50V K
C1506	QETN1HM-105Z	E CAP.	1pF 50V M
C1507	NCB21HK-103X	C CAP.	0.01μF 50V K
C1508	QETN1CM-108Z	E CAP.	1000pF 16V M
C1509	NCB21HK-823X	CHIP CAP.	0.082μF 50V K
C1510-11	NCB21HK-103X	C CAP.	0.01μF 50V K
C1512	QETN1HM-105Z	E CAP.	0.1μF 50V K
C1513	QETN1CM-228Z	E CAP.	2200pF 16V M
C1514	NCB21HK-103X	C CAP.	0.01μF 50V K
C1515	QFV71HJ-394Z	MF CAP.	0.39μF 50V J
C1516	NCB21HK-103X	C CAP.	0.01μF 50V K
C1551-52	NCB21EK-224X	CHIP CAP.	0.22μF 25V K
C1553	QETN1EM-476Z	E CAP.	47pF 25V M
C1554-55	NCB21EK-224X	CHIP CAP.	0.22μF 25V K
C1571	NCB21HK-103X	C CAP.	0.01μF 50V K
C1601-02	NCB21HK-103X	C CAP.	0.01μF 50V K
C1603-04	NCF21CZ-105X	C CAP.	1pF 16V Z
C1606	NRS21J-0R0X	MG R	0.0Ω 1/10W J
C1622-23	QETN1CM-227Z	E CAP.	220pF 16V M
C1625	QETN1HM-105Z	E CAP.	1pF 50V M
C1635	QETN1HM-105Z	E CAP.	1pF 50V M
C1636	QETN1HM-107Z	E CAP.	100pF 50V M
C1637	QETN1HM-106Z	E CAP.	10pF 50V M
C1638-39	NCF21HZ-224X	C CAP.	0.22μF 50V Z
C1653	NCF21HZ-224X	C CAP.	0.22μF 50V Z
C1655	NCF21HZ-224X	C CAP.	0.22μF 50V Z
C1656	QETM1HM-228	E CAP.	2200pF 50V M
C1661-62	QETM1MV-108	E CAP.	1000pF 35V M
C1668	NCB21EK-104X	C CAP.	0.1μF 25V K
C1671	QETN1CM-107Z	E CAP.	100pF 16V M
C1672	NCB21EK-104X	C CAP.	0.1μF 25V K
C1701	NCF21CZ-105X	C CAP.	1pF 16V Z
C1703	QETN1EM-476Z	E CAP.	47pF 25V M
C1704	NCB21EK-104X	C CAP.	0.1μF 25V K
C1705	QETN1AM-107Z	E CAP.	100pF 10V M
C1706	NCB21EK-104X	C CAP.	0.1μF 25V K
C1707	QETN1HM-474Z	E CAP.	0.47pF 50V M
C1708	QETN1EM-476Z	E CAP.	47pF 25V M
C1709-10	NDC21HJ-9R0X	C CAP.	9.0pF 50V J
C1711	NCB21EK-104X	C CAP.	0.1μF 25V K
C1712	NDC21HJ-151X	C CAP.	150pF 50V J
C1713	QETN1HM-105Z	E CAP.	1pF 50V M
C1714	NDC21HJ-561X	C CAP.	560pF 50V J
C1716-17	QETN1HM-105Z	E CAP.	1pF 50V M
C1718	NCB21HK-333X	C CAP.	0.033μF 50V K
C1725	NCB21HK-102X	C CAP.	1000pF 50V K
C1726	NDC21HJ-391X	C CAP.	390pF 50V J
C1831-32	QETN1EM-476Z	E CAP.	47pF 25V M
C1833	NDC21HJ-221X	C CAP.	220pF 50V J

△	Symbol No.	Part No.	Part Name	Description
<b>CAPACITOR</b>				
C1834	NCB21EK-104X	C CAP.	0.1μF	25V K
C1835	NDC21HJ-220X	C CAP.	22pF	50V J
C1836-38	NCB21EK-104X	C CAP.	0.1μF	25V K
C1839	QETN1HM-106Z	E CAP.	10μF	50V M
C1871	NCB21EK-104X	C CAP.	0.1μF	25V K
C1872	NCB21HK-223X	C CAP.	0.022μF	50V K
C1873	NDC21HJ-221X	C CAP.	220pF	50V J
C1874-75	NDC21HJ-150X	C CAP.	15pF	50V J
C1876	NCB21HK-102X	C CAP.	1000pF	50V K
C1877	NCB21EK-104X	C CAP.	0.1μF	25V K
C1878	NCB21HK-102X	C CAP.	1000pF	50V K
C1879	NDC21HJ-221X	C CAP.	220pF	50V J
C1880	QETN1AM-477Z	E CAP.	470μF	10V M
C1881	NCB21EK-104X	C CAP.	0.1μF	25V K
C1882	QETN1EM-476Z	E CAP.	47μF	25V M
C1883	NCB21HK-103X	C CAP.	0.01μF	50V K
C1885	NCB21EK-104X	C CAP.	0.1μF	25V K
C1886	NCB21HK-103X	C CAP.	0.01μF	50V K
C1887-89	QETN1HM-106Z	E CAP.	50V M	

△	Symbol No.	Part No.	Part Name	Description
<b>COIL</b>				
L1001	QQL01BK-5R6Z	PEAKING COIL	5.6μH	
L1002	QQL01BK-270Z	PEAKING COIL	27μH	
L1301-02	QQL01BK-4R7Z	PEAKING COIL	4.7μH	
L1305	QL244K-4R7Z	PEAKING COIL	4.7μH	
L1501	QL244J-151Z	PEAKING COIL	150μH	
L1701	QQL01BK-4R7Z	PEAKING COIL	4.7μH	
L1702	QQL01BK-3R9Z	PEAKING COIL	3.9μH	
L1871	QQL01BK-4R7Z	PEAKING COIL	4.7μH	
<b>DIODE</b>				
D1301	MA3051/M/-X	ZENER DIODE		
D1302-04	MA111-X	SI. DIODE		
D1503	R8100A-T2	SI. DIODE		
D1602	MA111-X	SI. DIODE		
D1608-10	MA111-X	SI. DIODE		
D1612-13	MA111-X	SI. DIODE		
D1617-18	MA3330/L/-X	ZENER DIODE		
D1624-25	MA111-X	SI. DIODE		
D1701	MA3068/M/-X	ZENER DIODE		
D1702	MA111-X	SI. DIODE		
D1704	MA111-X	SI. DIODE		
D1705	MA3036-X	ZENER DIODE		
D1706-08	MA111-X	SI. DIODE		
D1710	MA111-X	SI. DIODE		
D1831	MA3051/M/-X	ZENER DIODE		
<b>TRANSISTOR</b>				

△	Symbol No.	Part No.	Part Name	Description
<b>TRANSISTOR</b>				
Q1709-10	2SC2412K/QR/-X	SI. TRANSISTOR		
Q1832-33	2SC2412K/QR/-X	SI. TRANSISTOR		
Q1834	2SA1037AK/QR/-X	SI. TRANSISTOR		
Q1835-37	2SC2412K/QR/-X	SI. TRANSISTOR		
Q1871	2SA1037AK/QR/-X	SI. TRANSISTOR		
Q1872	2SC2412K/QR/-X	SI. TRANSISTOR		
<b>IC</b>				
IC1301	TB1227CN	I C		
IC1302	TC4053BP/N/	I.C.(DIGI-MOS)		
IC1501	AN5441SA-W	I C		
IC1551	LA6515	I.C.(MONO-ANA)		
IC1601	TA8246AH	I.C.(HYBRID)		
IC1607	TA78L005AP-T	I.C.(H)		
IC1701	M37280MK-104SP	I C		
IC1702	AT24C16-32WFT1	I.C.		(SERVICE)
IC1703	L78LR05E-MA	I.C.(MONO-ANA)		
IC1704	JLC1562BF-X	I.C.(DIGI-MOS)		
IC1831	JCC5035	I.C.(DIGI-MOS)		
IC1832	MN1382/Q/-X	I.C.(MONO-ANA)		
IC1871	ET417	I.C.(M)		
IC1872	ET206	I.C.(M)		

△	Symbol No.	Part No.	Part Name	Description
<b>OTHERS</b>				
CN1001	QGF1216C1-25	FFC CONNECTOR		
J1001	QNN0296-001	PIN JACK		
K1001-02	CE41433-001Z	BEADS CORE		
K1004	CE41433-001Z	BEADS CORE		
K1307	CE41433-001Z	BEADS CORE		
K1601-02	CE42661-001Y	BEADS CORE		
K1872	CE41433-001Z	BEADS CORE		
LC1301	CE42142-222Z	EMI FILTER		
TU1001	QAU0189-001	TUNER		
W1229	NRSA02J-0R0X	MG R	0.0Ω	1/10W J
W1232-33	NRSA02J-0R0X	MG R	0.0Ω	1/10W J
W1235-42	NRSA02J-0R0X	MG R	0.0Ω	1/10W J
W1245	NRSA02J-0R0X	MG R	0.0Ω	1/10W J
X1301	QAX0305-001Z	CRYSTAL		
X1701	CST8.00NTW	CER. RESONATOR		
X1831	QAX0624-001Z	C RESONATOR		
X1871	CE41257-001Z	CRYSTAL		
Y1611-13	NRSA02J-0R0X	MG R	0.0Ω	1/10W J
Y1618-19	NRSA02J-0R0X	MG R	0.0Ω	1/10W J
Y1871	NRSA02J-0R0X	MG R	0.0Ω	1/10W J

**POWER & DEF. PW BOARD ASS'Y (SJK-2502A-U2)**  
Refer to PARTS LIST in page 45 for this P.W. board.

**CRT SOCKET PW BOARD ASS'Y (SJK-3502A-U2)**  
Refer to PARTS LIST in page 47 for this P.W. board.

**FRONT CONTROL PW BOARD ASS'Y (SJK-8502A-U2)**  
Refer to PARTS LIST in page 48 for this P.W. board.

AV SEL. PW BOARD ASS'Y (SJK0S901A-U2)

△ Symbol No. Part No. Part Name Description

**RESISTOR**

R0101-08	NRSA02J-750X	MG R	75Ω 1/10W J
R0110	NRSA02J-823X	MG R	82kΩ 1/10W J
R0112	NRSA02J-823X	MG R	82kΩ 1/10W J
R0113	NRSA02J-750X	MG R	75Ω 1/10W J
R0114	NRSA02J-473X	MG R	47kΩ 1/10W J
R0115-16	NRSA02J-223X	MG R	22kΩ 1/10W J
R0117-18	NRSA02J-823X	MG R	82kΩ 1/10W J
R0119-20	NRSA02J-391X	MG R	390Ω 1/10W J
R0123	NRSA02J-104X	MG R	100kΩ 1/10W J
R0124-25	NRSA02J-101X	MG R	100Ω 1/10W J
R0126	NRSA02J-333X	MG R	33kΩ 1/10W J
R0127	NRSA02J-101X	MG R	100Ω 1/10W J
R0128	NRSA02J-103X	MG R	10kΩ 1/10W J
R0129	NRSA02J-683X	MG R	68kΩ 1/10W J
R0130	NRSA02J-473X	MG R	47kΩ 1/10W J
R0131	NRSA02J-273X	MG R	27kΩ 1/10W J
R0132	NRSA02J-153X	MG R	15kΩ 1/10W J
R0133	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0134	NRSA02J-333X	MG R	33kΩ 1/10W J
R0135	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0136-37	NRSA02J-333X	MG R	33kΩ 1/10W J
R0138	NRSA02J-473X	MG R	47kΩ 1/10W J
R0139	NRSA02J-683X	MG R	68kΩ 1/10W J
R0140	NRSA02J-103X	MG R	10kΩ 1/10W J
R0141	NRSA02J-153X	MG R	15kΩ 1/10W J
R0142	NRSA02J-223X	MG R	22kΩ 1/10W J
R0143	NRSA02J-473X	MG R	47kΩ 1/10W J
R0144	NRSA02J-273X	MG R	27kΩ 1/10W J
R0146	NRSA02J-391X	MG R	390Ω 1/10W J
R0148	NRSA02J-391X	MG R	390Ω 1/10W J
R0151	NRSA02J-104X	MG R	100kΩ 1/10W J
R0152	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0153	NRSA02J-333X	MG R	33kΩ 1/10W J
R0154	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0155	NRSA02J-333X	MG R	33kΩ 1/10W J
R0156-69	NRSA02J-101X	MG R	100Ω 1/10W J
R0170	NRSA02J-333X	MG R	33kΩ 1/10W J
R0171	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0172	NRSA02J-473X	MG R	47kΩ 1/10W J
R0173	NRSA02J-683X	MG R	68kΩ 1/10W J
R0174	NRSA02J-103X	MG R	10kΩ 1/10W J
R0175	NRSA02J-153X	MG R	15kΩ 1/10W J
R0176	NRSA02J-473X	MG R	47kΩ 1/10W J
R0177	NRSA02J-273X	MG R	27kΩ 1/10W J
R0180-83	NRSA02J-101X	MG R	100Ω 1/10W J
R0184	NRSA02J-333X	MG R	33kΩ 1/10W J
R0185	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0186	NRSA02J-333X	MG R	33kΩ 1/10W J
R0188	NRSA02J-101X	MG R	100Ω 1/10W J
R0189-90	NRSA02J-221X	MG R	220Ω 1/10W J
R0191-92	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R0193-94	NRSA02J-102X	MG R	1kΩ 1/10W J
R0195	QRG01GJ-101	OM R	100Ω 1W J
R0197	QRK126J-181X	C R	180Ω 1/2W J
R0198	NRSA02J-750X	MG R	75Ω 1/10W J
R0199	NRSA02J-101X	MG R	100Ω 1/10W J
R0202	QRK126J-151X	C R	150Ω 1/2W J
R0203-05	NRSA02J-750X	MG R	75Ω 1/10W J
R0207	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0208	NRSA02J-333X	MG R	33kΩ 1/10W J
R0209	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0210	NRSA02J-333X	MG R	33kΩ 1/10W J
R0211-12	NRSA02J-103X	MG R	10kΩ 1/10W J
R0301	NRSA02J-103X	MG R	10kΩ 1/10W J
R0302	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R0303-04	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R0305	NRSA02J-103X	MG R	10kΩ 1/10W J
R0309	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R0310	NRSA02J-392X	MG R	3.9kΩ 1/10W J

△ Symbol No. Part No. Part Name Description

**RESISTOR**

R0313	NRSA02J-101X	MG R	100Ω 1/10W J
R0314	NRSA02J-473X	MG R	47kΩ 1/10W J
R0315	NRSA02J-102X	MG R	1kΩ 1/10W J
R0316	NRSA02J-122X	MG R	1.2kΩ 1/10W J
R0317	NRSA02J-273X	MG R	27kΩ 1/10W J
R0318-19	NRSA02J-102X	MG R	1kΩ 1/10W J
R0320	NRSA02J-473X	MG R	47kΩ 1/10W J
R0321	NRSA02J-101X	MG R	100Ω 1/10W J
R0322	NRSA02J-273X	MG R	27kΩ 1/10W J
R0323	NRSA02J-122X	MG R	1.2kΩ 1/10W J
R0324	NRSA02J-102X	MG R	1kΩ 1/10W J
R0325	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R0603	NRSA02J-102X	MG R	1kΩ 1/10W J
R0606	QRG01GJ-181	OM R	180Ω 1W J
R0607	NRSA02J-123X	MG R	12kΩ 1/10W J
R0608	NRSA02J-181X	MG R	180Ω 1/10W J
R0609	NRSA02J-123X	MG R	12kΩ 1/10W J
R0610	NRSA02J-561X	MG R	560Ω 1/10W J
R0614-15	NRSA02J-223X	MG R	22kΩ 1/10W J
R0617-18	NRSA02J-103X	MG R	10kΩ 1/10W J
R0620	NRSA02J-103X	MG R	10kΩ 1/10W J
R0622-23	NRSA02J-223X	MG R	22kΩ 1/10W J
R0628	NRSA02J-080X	MG R	0.0Ω 1/10W J
R0629-30	NRSA02J-101X	MG R	100Ω 1/10W J
R0631	NRSA02J-122X	MG R	1.2kΩ 1/10W J
R0632	NRSA02J-473X	MG R	47kΩ 1/10W J
R0633	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R0634	NRSA02J-473X	MG R	47kΩ 1/10W J
R0635	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R0636	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R0638	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R0647-48	NRSA02J-103X	MG R	10kΩ 1/10W J
R0649-50	NRSA02J-822X	MG R	8.2kΩ 1/10W J

**CAPACITOR**

C0101	NCB21HK-472X	C CAP.	4700pF 50V K
C0102	QETN1CM-477Z	E CAP.	470μF 16V M
C0103-05	QETN1HM-106Z	E CAP.	10μF 50V M
C0106-09	NCB21HK-472X	C CAP.	4700pF 50V K
C0110	QETN1CM-477Z	E CAP.	470μF 16V M
C0111-15	NCB21HK-472X	C CAP.	4700pF 50V K
C0116-17	QETN1HM-106Z	E CAP.	10μF 50V M
C0118	NCB21HK-102X	C CAP.	1000pF 50V K
C0119	QETN1HM-105Z	E CAP.	1μF 50V M
C0120	QETN1HM-106Z	E CAP.	10μF 50V M
C0121	QETN1HM-105Z	E CAP.	1μF 50V M
C0122	NCB21HK-103X	C CAP.	0.01μF 50V K
C0123	NCB21HK-102X	C CAP.	1000pF 50V K
C0124-25	QETN1HM-106Z	E CAP.	10μF 50V M
C0126	QETN1HM-105Z	E CAP.	1μF 50V M
C0127	QETN1HM-106Z	E CAP.	10μF 50V M
C0128	QETN1HM-105Z	E CAP.	1μF 50V M
C0129	QETN1HM-106Z	E CAP.	10μF 50V M
C0130	QETN1HM-105Z	E CAP.	1μF 50V M
C0131	NCB21HK-102X	C CAP.	1000pF 50V K
C0132	QETN1HM-105Z	E CAP.	1μF 50V M
C0133	NCB21HK-103X	C CAP.	0.01μF 50V K
C0136	QETN1HM-106Z	E CAP.	10μF 50V M
C0137	QENC1EM-106Z	BP E CAP.	10μF 25V M
C0139	QENC1EM-106Z	BP E CAP.	10μF 25V M
C0140	QETN1CM-107Z	E CAP.	100μF 16V M
C0141	NCB21HK-103X	C CAP.	0.01μF 50V K
C0142	NCF21CZ-105X	C CAP.	1μF 16V Z
C0143	QENC1EM-106Z	BP E CAP.	10μF 25V M
C0144	NCF21CZ-105X	C CAP.	1μF 16V Z
C0145-46	QETN1CM-107Z	E CAP.	100μF 16V M
C0147	QETN1CM-477Z	E CAP.	470μF 16V M

△	Symbol No.	Part No.	Part Name	Description
<b>CAPACITOR</b>				

C0149	NCB21HK-103X	C CAP.	0.01μF	50V K
C0150-51	QETN1HM-106Z	E CAP.	10μF	50V M
C0152-53	QETN1HM-105Z	E CAP.	1μF	50V M
C0154-55	NDC21HK-680X	C CAP.	68pF	50V J
C0156	NCB21HK-103X	C CAP.	0.01μF	50V K
C0301	NDC21HK-271X	C CAP.	270pF	50V J
C0306-07	NCB21EK-104X	C CAP.	0.1μF	25V K
C0308	NCB21HK-103X	C CAP.	0.01μF	50V K
C0310-11	QETN1HM-106Z	E CAP.	10μF	50V M
C0312	NCB21HK-103X	C CAP.	0.01μF	50V K
C0313	NCB21EK-104X	C CAP.	0.1μF	25V K
C0610	NDC21HK-821X	C CAP.	820pF	50V J
C0611-12	NDC21HK-470X	C CAP.	47pF	50V J
C0614	NDC21HK-180X	C CAP.	18pF	50V J
C0616	QETN1CM-107Z	E CAP.	100μF	16V M
C0617	NCB21EK-104X	C CAP.	0.1μF	25V K
C0618	QETN1HM-106Z	E CAP.	10μF	50V M
C0619	NCB21EK-104X	C CAP.	0.1μF	25V K
C0620	QETN1HM-106Z	E CAP.	10μF	50V M
C0621-22	NCF21CZ-105X	C CAP.	1μF	16V Z
C0623	NCB21EK-104X	C CAP.	0.1μF	25V K
C0624	QETN1HM-106Z	E CAP.	10μF	50V M
C0625	NCB21HK-332X	C CAP.	3300pF	50V K
C0626	NCB21HK-333X	C CAP.	0.033μF	50V K
C0627	NCF21CZ-105X	C CAP.	1μF	16V Z
C0628	QETN1EM-476Z	E CAP.	47μF	25V M
C0629	QETN1HM-106Z	E CAP.	10μF	50V M
C0630-31	NCB21HK-102X	C CAP.	1000pF	50V K
C0632	NCB21EK-104X	C CAP.	0.1μF	25V K
C0633	QETN1HM-106Z	E CAP.	10μF	50V M
C0634-35	NCB21HK-103X	C CAP.	0.01μF	50V K
C0636	NDC21HK-2R0X	C CAP.	2.0pF	50V J
C0637	NCB21HK-332X	C CAP.	3300pF	50V K
C0638	NCB21HK-333X	C CAP.	0.033μF	50V K
C0639	QETN1HM-106Z	E CAP.	10μF	50V M
C0640	QETN1EM-476Z	E CAP.	47μF	25V M
C0641	NCB21EK-104X	C CAP.	0.1μF	25V K
C0642	NDC21HK-2R0X	C CAP.	2.0pF	50V J
C0643	NCF21CZ-105X	C CAP.	1μF	16V Z
C0645	NCB21HK-103X	C CAP.	0.01μF	50V K
C0646	NCB21EK-104X	C CAP.	0.1μF	25V K
C0647	QETN1CM-107Z	E CAP.	100μF	16V M
C0648	NCB21EK-104X	C CAP.	0.1μF	25V K
C0649	QETN1CM-107Z	E CAP.	100μF	16V M
C0650	NDC21HK-221X	C CAP.	220pF	50V J
C0651	NCB21HK-562X	C CAP.	5600pF	50V K
C0652	QETN1EM-476Z	E CAP.	47μF	25V M
C0653	NDC21HK-221X	C CAP.	220pF	50V J
C0654	NCB21HK-562X	C CAP.	5600pF	50V K
C0659-60	NCF21CZ-105X	C CAP.	1μF	16V Z
C0677-78	NCB21HK-102X	C CAP.	1000pF	50V K

**COIL**

L0112-14	QQR0716-001Z	LEAD CORE
L0301	QLQ01BK-221Z	PEAKING COIL
L0601	QLQ01BK-220Z	PEAKING COIL
L0602	QLQ01BK-180Z	PEAKING COIL
L0604	QLQ01BK-100Z	PEAKING COIL
L0605	QLQ01BK-4R7Z	PEAKING COIL

**DIODE**

D0101-13	MA3120/M-X	ZENER DIODE
D0601	RD8.2E/B2/-T2	ZENER DIODE
D0602	MA3062/H-X	ZENER DIODE

△	Symbol No.	Part No.	Part Name	Description
<b>TRANSISTOR</b>				

Q0101	DTC323TK-X	DIGI. TRANSISTOR
Q0102	2SA1037AK/QR/-X	SI. TRANSISTOR
Q0103	DTC323TK-X	DIGI. TRANSISTOR
Q0104-07	2SC2412K/QR/-X	SI. TRANSISTOR
Q0108	2SA1037AK/QR/-X	SI. TRANSISTOR
Q0109-10	DTC323TK-X	DIGI. TRANSISTOR
Q0111-12	2SC2412K/QR/-X	SI. TRANSISTOR
Q0116	2SA933AS/QR/-T	SI. TRANSISTOR
Q0118	2SC1740S/QR/-T	SI. TRANSISTOR
Q0119-20	2SC2412K/QR/-X	SI. TRANSISTOR
Q0301	2SA1037AK/QR/-X	SI. TRANSISTOR
Q0302-03	DTC124EKA-X	DIGI. TRANSISTOR
Q0304-05	2SA1037AK/QR/-X	SI. TRANSISTOR
Q0306	2SC2412K/QR/-X	SI. TRANSISTOR
Q0307	2SA1037AK/QR/-X	SI. TRANSISTOR
Q0308	2SC2412K/QR/-X	SI. TRANSISTOR
Q0601	2SC2412K/QR/-X	SI. TRANSISTOR

**IC**

IC0101	CXA20890-X	I C
IC0302	TDA9181/N1-X	I C
IC0602	NJM2150AM-X	I.C. (MONO-ANA)
IC0603	MSP3415D-QG-B3X	IC
IC0604	BA4558F-X	I.C. (MONO-ANA)

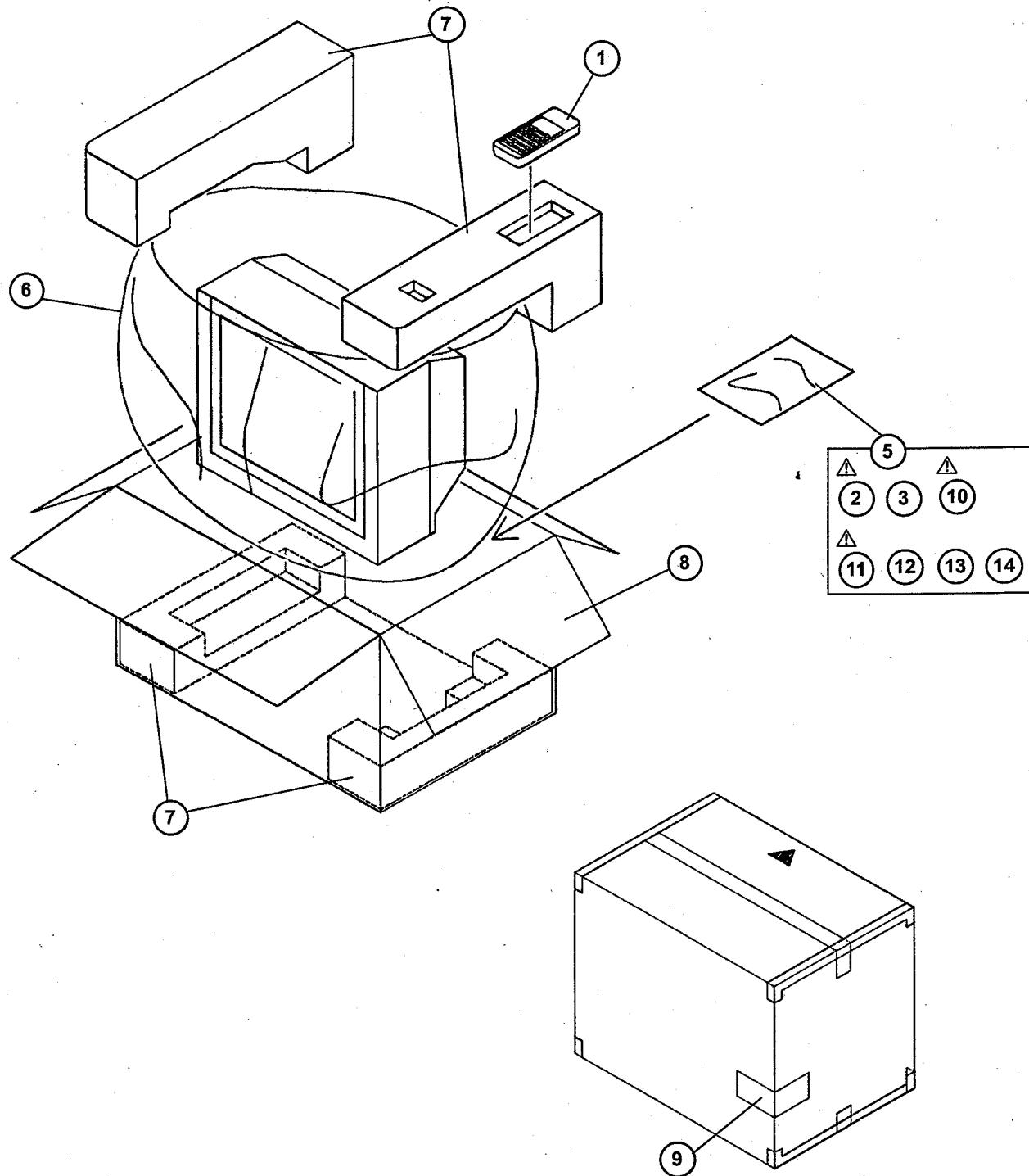
**OTHERS**

J0001	CEX45309	SCART CONNECTOR
J0002	CE40529-009J1	21 PIN SOCKET
K0601	CE41433-001Z	BEADS CORE
LC0601-02	CE42482-103Y	ENI FILTER
W0001-10	NRSA02J-OROX	MG R
W0023	NRSA02J-OROX	MG R
W0026	NRSA02J-OROX	MG R
W0029	NRSA02J-OROX	MG R
W0032	NRSA02J-OROX	MG R
W0041	NRSA02J-OROX	MG R
W0052	NRSA02J-OROX	MG R
W0065	NRSA02J-OROX	MG R
W0076-88	NRSA02J-OROX	MG R
W0110	NRSA02J-OROX	MG R
W0113-14	NRSA02J-OROX	MG R
W0119	NRSA02J-OROX	MG R
W0125	NRSA02J-OROX	MG R
W0129-30	NRSA02J-OROX	MG R
W0136-39	NRSA02J-OROX	MG R
W0145-48	NRSA02J-OROX	MG R
W0157	NRSA02J-OROX	MG R
W0160	NRSA02J-OROX	MG R
X0601	CE42546-001Z	CRYSTAL
Y0606	NRSA02J-OROX	MG R
Y0616	NRSA02J-OROX	MG R

AV-28WFT1EPG AV-28WFT1EIS  
AV-28WFT1EPS  
AV-28WFT1EKS  
AV-28WFT1EK

## AV-28WFT1EPG / AV-28WFT1EPS / AV-28WFT1EIS AV-28WFT1EKS / AV-28WFT1EK

### PACKING



## PACKING PARTS LIST

### AV-28WFT1EPG

△ Ref. No.	Part No.	Part Name	Description
1	RM-C50-1C	REMOCON UNIT	
3	BT-54013-1E	WARRANTY CARD	
5	AEM3021-001-E	POLY BAG	
6	AEM1047-002-E	POLY BAG	
7	LC10722-002A-U	CUSHION ASSY	4pcs in 1set
8	AEM1002-068-E	PACKING CASE	
9	AEM1039-070-E	EURO LABEL	
△ 10	LCT0619-001A-U	INST BOOK	For ENG/GER/FRA/NED/ITA/ESP
△ 11	LCT0620-001A-U	INST BOOK	For FIN/NOR/DEN/SWE/POR
12	AEM1050-001-E	X-RAY CARD	
13	2832WFT1-HSAE	S.DIAGRAM	ONLY ITALY(SERVICE)

### AV-28WFT1EPS

△ Ref. No.	Part No.	Part Name	Description
1	RM-C50-1C	REMOCON UNIT	
3	BT-54013-1E	WARRANTY CARD	
5	AEM3021-001-E	POLY BAG	
6	AEM1047-002-E	POLY BAG	
7	LC10722-002A-U	CUSHION ASSY	4pcs in 1set
8	AEM1002-068-E	PACKING CASE	
9	AEM1039-079-E	EURO LABEL	
△ 10	LCT0619-001A-U	INST BOOK	For ENG/GER/FRA/NED/ITA/ESP
△ 11	LCT0620-001A-U	INST BOOK	For FIN/NOR/DEN/SWE/POR
12	AEM1050-001-E	X-RAY CARD	
13	2832WFT1-HSAE	S.DIAGRAM	ONLY ITALY(SERVICE)

### AV-28WFT1EIS

△ Ref. No.	Part No.	Part Name	Description
1	RM-C51-1C	REMOCON UNIT	
△ 2	LCT0622-001A-U	INST BOOK	
3	BT-54013-1E	WARRANTY CARD	
5	AEM3021-001-E	POLY BAG	
6	AEM1047-002-E	POLY BAG	
7	LC10722-002A-U	CUSHION ASSY	4pcs in 1set
8	AEM1002-068-E	PACKING CASE	
9	AEM1039-081-E	EURO LABEL	

### AV-28WFT1EKS

△ Ref. No.	Part No.	Part Name	Description
1	RM-C51-1C	REMOCON UNIT	
△ 2	LCT0621-001A-U	INST BOOK	
3	BT-54013-1E	WARRANTY CARD	
5	AEM3021-001-E	POLY BAG	
6	AEM1047-002-E	POLY BAG	
7	LC10722-002A-U	CUSHION ASSY	4pcs in 1set
8	AEM1002-068-E	PACKING CASE	
9	AEM1039-072-E	EURO LABEL	
14	AEM3148-001-E	REG. CARD	

### AV-28WFT1EK

△ Ref. No.	Part No.	Part Name	Description
1	RM-C51-1C	REMOCON UNIT	
△ 2	LCT0622-001A-U	INST BOOK	
3	BT-54013-1E	WARRANTY CARD	
5	AEM3021-001-E	POLY BAG	
6	AEM1047-002-E	POLY BAG	
7	LC10722-002A-U	CUSHION ASSY	4pcs in 1set
8	AEM1002-068-E	PACKING CASE	
9	AEM1039-080-E	EURO LABEL	
14	AEM3148-001-E	REG. CARD	

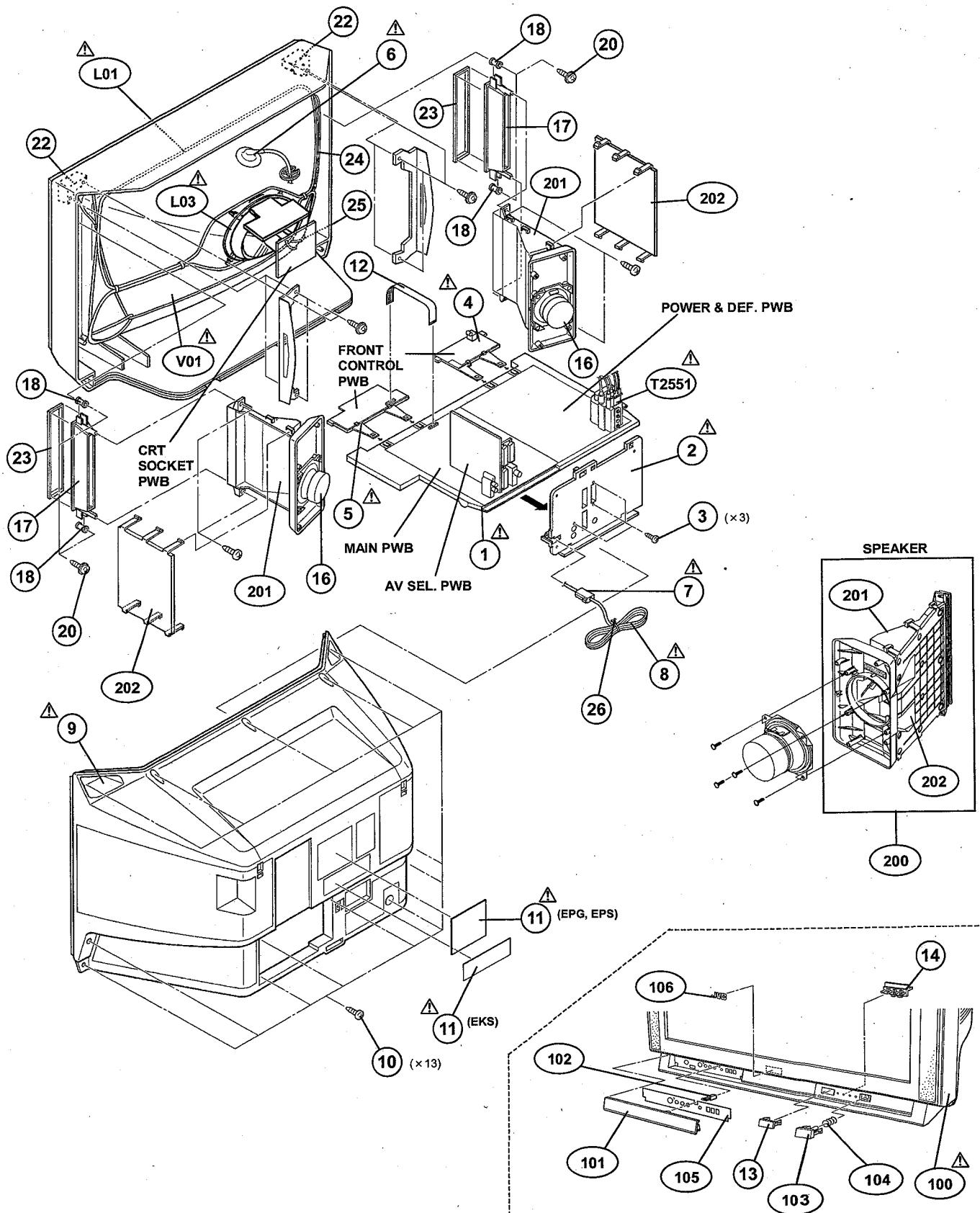
## AV-32WFT1EPG / AV-32WFT1EPS / AV-32WFT1EKS

### EXPLODED VIEW PARTS LIST

△ Ref. No.	Part No.	Part Name	Description
△ V01	W76ERF031X013	CRT (ITC)	
△ L01	QW0066-001	DEG COIL	
△ L03	CELD904-001	ROTATION COIL	
△ T2551	QQH0065-002-12	FBT	(SERVICE) Within POWER DEF PWB
△ 1	LC10716-002D-U	CHASSIS BASE	
△ 2	LC10717-003C-U	AV BOARD	
△ 3	QYSBSB3012M	TAPPING SCREW	(× 3) For AV BOARD
△ 4	LC10380-001C-U	CONTROL BASE L	
△ 5	LC10380-002B-U	CONTROL BASE R	
△ 6	QNZ0407-001	ANODE WIRE	
△ 7	CM46618-A01-E	POWER CORD CLAMP	
△ 8	QMPK160-185-JC	POWER CORD	[AV-32WFT1EPG/EPS]
△ 8	QMPN130-185-JC	POWER CORD	[AV-32WFT1EKS]
△ 9	LC10378-001D-U	REAR COVER	[AV-32WFT1EPG]
△ 9	LC10378-003A-U	REAR COVER	[AV-32WFT1EPS/EKS]
10	QYSBSAG4016N	TAPPING SCREW	(× 13)
△ 11	LC20542-001A-U	RATING LABEL	[AV-32WFT1EPG]
△ 11	LC20542-002A-U	RATING LABEL	[AV-32WFT1EPS]
△ 11	LC20091-011A-U	RATING LABEL	[AV-32WFT1EKS]
12	CHFD125-18BD-N	FFC WIRE	
13	LC30579-001B-C	REMOCON WINDOW	
14	LC30580-001B-C	L. E. D. LENS	
16	CEBSF10P-02KJ6	SPEAKER	(× 2) SP01, SP02
17	LC10379-001A-U	HORN ADAPTER	(× 2)
18	LC40226-001A	SPACER	(× 4)
20	LC40506-001A	TAP SCREW	(× 4) For HORN ADAPTER
22	LC20508-001D-U	ADAPTER	(× 4)
23	LC30820-001C	STICK SHEET	(× 2)
24	CHGB0029-0C	BRAIDED ASSY	
25	CHGB0017-0B	BRAIDED SUB ASSY	(× 2)
26	CM48170-001	BEAD TIE	
△ 100	LC10376-003B-U	FRONT CAB1. ASSY	[AV-32WFT1EPG] Inc. No. 101~106
△ 100	LC10376-008A-U	FRONT CAB1. ASSY	[AV-32WFT1EPS/EKS] Inc. No. 101~106
101	LC20265-003A-U	DOOR	[AV-32WFT1EPG] (SERVICE)
101	LC20265-010A-U	DOOR	[AV-32WFT1EPS/EKS] (SERVICE)
102	CM48229-00A	DOOR LATCH	
103	LC30578-002A-C	POWER KNOB	[AV-32WFT1EPG] (SERVICE)
103	LC30578-006A-C	POWER KNOB	[AV-32WFT1EPS/EKS] (SERVICE)
104	CM35235-003-H	SPRING	
105	LC30597-002A-U	CONTROL SHEET	[AV-32WFT1EPG]
105	LC30597-006A-U	CONTROL SHEET	[AV-32WFT1EPS/EKS]
106	LC40354-001C-C	JVC MARK	
200	2528MXSP-2SE	DOME SPK BOX	(× 2) Inc. No. 201~202
201	CM12463-D01-E	HORN	(× 2)
202	CM12464-D01-E	HORN PANEL	(× 2)

## AV-32WFT1EPG / AV-32WFT1EPS / AV-32WFT1EKS

### EXPLODED VIEW



# AV-32WFT1EPG / AV-32WFT1EPS

## PRINTED WIRING BOARD PARTS LIST

### MAIN PW BOARD ASS'Y (SJK-1701A-U2)

△ Symbol No. Part No. Part Name Description

#### RESISTOR

R1001-06	NRSA02J-102X	MG R	1kΩ 1/10W J
R1007	NRSA02J-104X	MG R	100kΩ 1/10W J
R1008	NRSA02J-080X	MG R	0.0Ω 1/10W J
R1301	NRSA02J-103X	MG R	10kΩ 1/10W J
R1302	NRSA02J-183X	MG R	18kΩ 1/10W J
R1303	NRSA02J-153X	MG R	15kΩ 1/10W J
R1304	QRG01GJ-121	OM R	120Ω 1W J
R1305	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1306	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1307-08	NRSA02J-102X	MG R	1kΩ 1/10W J
R1309	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1310-11	NRSA02J-391X	MG R	390Ω 1/10W J
R1312-13	NRSA02J-101X	MG R	100Ω 1/10W J
R1314	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1316	NRSA02J-224X	MG R	220kΩ 1/10W J
R1317	NRSA02J-101X	MG R	100Ω 1/10W J
R1318-21	NRSA02J-102X	MG R	1kΩ 1/10W J
R1327	NRSA02J-471X	MG R	470Ω 1/10W J
R1328-29	NRSA02J-102X	MG R	1kΩ 1/10W J
R1330	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1331	NRSA02J-333X	MG R	33kΩ 1/10W J
R1332-33	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1335	NRSA02J-273X	MG R	27kΩ 1/10W J
R1336	NRSA02J-103X	MG R	10kΩ 1/10W J
R1337	NRSA02J-102X	MG R	1kΩ 1/10W J
R1338	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1339	NRSA02J-102X	MG R	1kΩ 1/10W J
R1340-41	NRSA02J-333X	MG R	33kΩ 1/10W J
R1342	NRSA02J-152X	MG R	1.5kΩ 1/10W J
R1343	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R1344	NRSA02J-471X	MG R	470Ω 1/10W J
R1345	NRSA02J-102X	MG R	1kΩ 1/10W J
R1346	NRSA02J-223X	MG R	22kΩ 1/10W J
R1401-02	NRSA02J-103X	MG R	10kΩ 1/10W J
R1403	NRSA02J-102X	MG R	1kΩ 1/10W J
R1404	NRSA02J-183X	MG R	18kΩ 1/10W J
R1405	NRSA02J-223X	MG R	22kΩ 1/10W J
R1409	NRSA02J-080X	MG R	0.0Ω 1/10W J
R1411	NRA02D-473X	MF R	47kΩ 1/10W D
R1413	NRA02D-223X	MF R	22kΩ 1/10W D
R1414	NRA02D-101X	MF R	100Ω 1/10W D
R1415	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1416	NRSA02J-101X	MG R	100Ω 1/10W J
R1417	NRSA02J-223X	MG R	22kΩ 1/10W J
R1418	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R1419	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1420	NRSA02J-123X	MG R	12kΩ 1/10W J
R1501	NRSA02J-621X	MG R	620Ω 1/10W J
R1502	NRSA02J-103X	MG R	10kΩ 1/10W J
R1503	NRSA02J-104X	MG R	100kΩ 1/10W J
R1504	NRSA02J-103X	MG R	10kΩ 1/10W J
R1505-06	NRSA02J-221X	MG R	220Ω 1/10W J
R1507	NRSA02J-102X	MG R	1kΩ 1/10W J
R1508-09	NRSA02J-223X	MG R	22kΩ 1/10W J
R1511	NRSA02J-080X	MG R	0.0Ω 1/10W J
R1514	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1516	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1517	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1518	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R1519	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1520	NRSA02J-152X	MG R	1.5kΩ 1/10W J
R1551	QRE121J-100Y	C R	10Ω 1/2W J
R1552	NRSA02J-124X	MG R	120kΩ 1/10W J

△ Symbol No. Part No. Part Name Description

#### RESISTOR

R1553	NRSA02J-683X	MG R	68kΩ 1/10W J
R1554	NRSA02J-333X	MG R	33kΩ 1/10W J
R1555	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1556	NRSA02J-154X	MG R	150kΩ 1/10W J
R1557-58	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1559	NRSA02J-080X	MG R	0.0Ω 1/10W J
R1560	NRSA02J-104X	MG R	100kΩ 1/10W J
R1561	QRE121J-100Y	C R	10Ω 1/2W J
R1571	NRSA02J-101X	MG R	100Ω 1/10W J
R1572	NRSA02J-133X	MG R	13kΩ 1/10W J
R1573	NRSA02J-821X	MG R	820Ω 1/10W J
R1602	NRSA02J-104X	MG R	100kΩ 1/10W J
R1604	NRSA02J-393X	MG R	39kΩ 1/10W J
R1605	NRSA02J-681X	MG R	680Ω 1/10W J
R1606	NRSA02J-393X	MG R	39kΩ 1/10W J
R1607	NRSA02J-681X	MG R	680Ω 1/10W J
R1608-09	NRSA02J-223X	MG R	22kΩ 1/10W J
R1610-11	NRSA02J-822X	MG R	8.2kΩ 1/10W J
R1633	NRSA02J-273X	MG R	27kΩ 1/10W J
R1638	NRSA02J-473X	MG R	47kΩ 1/10W J
R1648	NRSA02J-104X	MG R	100kΩ 1/10W J
R1649	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R1650	NRSA02J-104X	C R	100kΩ 1/10W J
R1660	QRK126J-2R2X	C R	2.2Ω 1/2W J
R1661	NRSA02J-103X	MG R	10kΩ 1/10W J
R1663	NRSA02J-561X	MG R	560Ω 1/10W J
R1664	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1683	QRK126J-2R2X	C R	2.2Ω 1/2W J
R1689	NRSA02J-473X	MG R	47kΩ 1/10W J
R1690	QRG01GJ-270	OM R	27Ω 1W J
R1701	NRSA02J-221X	MG R	220Ω 1/10W J
R1702	NRSA02J-822X	MG R	8.2kΩ 1/10W J
R1703	NRSA02J-273X	MG R	27kΩ 1/10W J
R1704	NRSA02J-473X	MG R	47kΩ 1/10W J
R1705	NRSA02J-102X	MG R	1kΩ 1/10W J
R1706	NRSA02J-223X	MG R	22kΩ 1/10W J
R1707-12	NRSA02J-103X	MG R	10kΩ 1/10W J
R1713-14	NRSA02J-102X	MG R	1kΩ 1/10W J
R1716	NRSA02J-102X	MG R	1kΩ 1/10W J
R1717	NRSA02J-104X	MG R	100kΩ 1/10W J
R1718-19	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R1720	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1721	NRSA02J-103X	MG R	10kΩ 1/10W J
R1722	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1723	NRSA02J-102X	MG R	1kΩ 1/10W J
R1724-28	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1729-31	NRSA02J-221X	MG R	220Ω 1/10W J
R1732	NRSA02J-562X	MG R	5.6kΩ 1/10W J
R1733	NRSA02J-103X	MG R	10kΩ 1/10W J
R1734	NRSA02J-223X	MG R	22kΩ 1/10W J
R1736-39	NRSA02J-103X	MG R	10kΩ 1/10W J
R1740	NRSA02J-331X	MG R	330Ω 1/10W J
R1741-44	NRSA02J-102X	MG R	1kΩ 1/10W J
R1745-47	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1748-52	NRSA02J-221X	MG R	220Ω 1/10W J
R1753	NRSA02J-102X	MG R	1kΩ 1/10W J
R1754	NRSA02J-683X	MG R	68kΩ 1/10W J
R1755	NRSA02J-102X	MG R	1kΩ 1/10W J
R1756	NRSA02J-103X	MG R	10kΩ 1/10W J
R1758	NRSA02J-103X	MG R	10kΩ 1/10W J
R1759	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1760	NRSA02J-103X	MG R	10kΩ 1/10W J
R1762-63	NRSA02J-103X	MG R	10kΩ 1/10W J

Symbol No.	Part No.	Part Name	Description
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**RESISTOR**

R1764-66	NRSA02J-221X	MG R	220Ω 1/10W J
R1767	NRSA02J-103X	MG R	10kΩ 1/10W J
R1770	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R1771-73	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1774-75	NRSA02J-393X	MG R	39kΩ 1/10W J
R1777-79	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1780	NRSA02J-102X	MG R	1kΩ 1/10W J
R1784	NRSA02J-473X	MG R	47kΩ 1/10W J

R1785	NRSA02J-223X	MG R	22kΩ 1/10W J
R1786	NRSA02J-473X	MG R	47kΩ 1/10W J
R1787	NRSA02J-332X	MG R	3.3kΩ 1/10W J
R1788	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R1789	NRSA02J-473X	MG R	47kΩ 1/10W J
R1790	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R1801-02	NRSA02J-103X	MG R	10kΩ 1/10W J
R1804	NRSA02J-473X	MG R	47kΩ 1/10W J

R1805	NRSA02J-333X	MG R	33kΩ 1/10W J
R1834	NRSA02J-473X	MG R	47kΩ 1/10W J
R1835	NRSA02J-152X	MG R	1.5kΩ 1/10W J
R1837	NRSA02J-102X	MG R	1kΩ 1/10W J
R1838	NRSA02J-393X	MG R	39kΩ 1/10W J
R1839	NRSA02J-332X	MG R	3.3kΩ 1/10W J
R1840	NRSA02J-152X	MG R	1.5kΩ 1/10W J
R1841	NRSA02J-331X	MG R	330Ω 1/10W J

R1842	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1843	NRSA02J-332X	MG R	3.3kΩ 1/10W J
R1844	NRSA02J-392X	MG R	3.9kΩ 1/10W J
R1845	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R1846	NRSA02J-103X	MG R	10kΩ 1/10W J
R1847-48	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1849	NRSA02J-823X	MG R	82kΩ 1/10W J
R1850-56	NRSA02J-102X	MG R	1kΩ 1/10W J

R1857	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1858	NRSA02J-223X	MG R	22kΩ 1/10W J
R1859	NRSA02J-823X	MG R	82kΩ 1/10W J
R1871	NRSA02J-102X	MG R	1kΩ 1/10W J
R1872-73	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1874	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R1875	NRSA02J-104X	MG R	100kΩ 1/10W J
R1876	NRSA02J-102X	MG R	1kΩ 1/10W J

R1877	NRSA02J-393X	MG R	39kΩ 1/10W J
R1878-80	NRSA02J-152X	MG R	1.5kΩ 1/10W J
R1881-82	NRSA02J-331X	MG R	330Ω 1/10W J
R1883	NRSA02J-102X	MG R	1kΩ 1/10W J
R1884	NRSA02J-331X	MG R	330Ω 1/10W J

Symbol No.	Part No.	Part Name	Description
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**CAPACITOR**

C1313	QETN1CH-107Z	E CAP.	100pF 16V M
C1314	NCB21HK-103X	C CAP.	0.01μF 50V K
C1315	QETN1HM-106Z	E CAP.	10μF 50V M
C1319	QETN1CH-107Z	E CAP.	100μF 16V M
C1320	NCB21HK-103X	C CAP.	0.01μF 50V K
C1321-23	NCB21EK-104X	C CAP.	0.1μF 25V K
C1324-26	QETN1HM-105Z	E CAP.	1μF 50V M
C1327	QETN1HM-475Z	E CAP.	4.7μF 50V M

C1328	QETN1CH-107Z	E CAP.	100pF 16V M
C1329	QETN1EM-476Z	E CAP.	47μF 25V M
C1331	QETN1HM-105Z	E CAP.	1μF 50V M
C1332	NCB21HK-103X	C CAP.	0.01μF 50V K
C1333	NCB21EK-104X	C CAP.	0.1μF 25V K
C1401	QETN1HM-105Z	E CAP.	1μF 50V M
C1403-05	NCB21HK-103X	C CAP.	0.01μF 50V K
C1406	QFV71HJ-184Z	MF CAP.	0.18μF 50V J

C1407	QFV71HJ-564Z	MF CAP.	0.56μF 50V J
C1408	NCB21HK-153X	C CAP.	0.015μF 50V K
C1501	QETN1CH-107Z	E CAP.	100pF 16V M
C1502-04	NCB21HK-103X	C CAP.	0.01μF 50V K
C1505	NCB21HK-822X	C CAP.	8200pF 50V K
C1506	QETN1HM-105Z	E CAP.	1μF 50V M
C1507	NCB21HK-103X	C CAP.	0.01μF 50V K
C1508	QETN1CH-108Z	E CAP.	1000pF 16V M

C1509	NCB21HK-823X	CHIP CAP.	0.082μF 50V K
C1510-11	NCB21HK-103X	C CAP.	0.01μF 50V K
C1512	QTMN1HM-105Z	E CAP.	0.1μF 50V M
C1513	QETN1CH-228Z	E CAP.	2200pF 16V M
C1514	NCB21HK-103X	C CAP.	0.01μF 50V K
C1515	QFV71HJ-394Z	MF CAP.	0.39μF 50V J
C1516	NCB21HK-103X	C CAP.	0.01μF 50V K
C1551-52	NCB21EK-224X	CHIP CAP.	0.22μF 25V K

C1553	QETN1EM-476Z	E CAP.	47μF 25V M
C1554-55	NCB21EK-224X	CHIP CAP.	0.22μF 25V K
C1571	NCB21HK-103X	C CAP.	0.01μF 50V K
C1601-02	NCB21HK-103X	C CAP.	0.01μF 50V K
C1603-04	NCF21CZ-105X	C CAP.	1μF 16V Z
C1606	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
C1622-23	QETN1CH-227Z	E CAP.	220pF 16V M
C1625	QETN1HM-105Z	E CAP.	1μF 50V M

C1635	QETN1HM-105Z	E CAP.	1μF 50V M
C1636	QETN1HM-107Z	E CAP.	100pF 50V M
C1637	QETN1HM-106Z	E CAP.	10μF 50V M
C1638-39	NCF21HZ-224X	C CAP.	0.22μF 50V Z
C1653	NCF21HZ-224X	C CAP.	0.22μF 50V Z
C1655	NCF21HZ-224X	C CAP.	0.22μF 50V Z
C1656	QETM1HM-228	E CAP.	220pF 50V M
C1661-62	QETM1VM-108	E CAP.	1000pF 35V M

C1668	NCB21EK-104X	C CAP.	0.1μF 25V K
C1671	QETN1CH-107Z	E CAP.	100pF 16V M
C1672	NCB21EK-104X	C CAP.	0.1μF 25V K
C1701	NCF21CZ-105X	C CAP.	1μF 16V Z
C1703	QETN1EM-476Z	E CAP.	47μF 25V M
C1704	NCB21EK-104X	C CAP.	0.1μF 25V K
C1705	QETN1AM-107Z	E CAP.	100μF 10V M
C1706	NCB21EK-104X	C CAP.	0.1μF 25V K

C1707	QETN1HM-474Z	E CAP.	0.47μF 50V M
C1708	QETN1EM-476Z	E CAP.	47μF 25V M
C1709-10	NDC21HJ-9R0X	C CAP.	9.0pF 50V J
C1711	NCB21EK-104X	C CAP.	0.1μF 25V K
C1712	NDC21HJ-151X	C CAP.	150pF 50V J
C1713	QETN1HM-105Z	E CAP.	1μF 50V M
C1714	NDC21HJ-561X	C CAP.	560pF 50V J
C1716-17	QETN1HM-105Z	E CAP.	1μF 50V M

C1718	NCB21HK-333X	C CAP.	0.033μF 50V K
C1725	NCB21HK-102X	C CAP.	1000pF 50V K
C1726	NDC21HJ-391X	C CAP.	390pF 50V J
C1831-32	QETN1EM-476Z	E CAP.	47μF 25V M
C1833	NDC21HJ-221X	C CAP.	220pF 50V J
C1834	NCB21EK-104X	C CAP.	0.1μF 25V K

AV-32WFT1EPGIES

Symbol No.	Part No.	Part Name	Description
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**CAPACITOR**

C1835	NDC21HJ-220X	C CAP.	22pF 50V J
C1836-38	NCB21EK-104X	C CAP.	0.1pF 25V K
C1839	QETN1HM-106Z	E CAP.	10pF 50V M
C1871	NCB21EK-104X	C CAP.	0.1pF 25V K
C1872	NCB21HK-223X	C CAP.	0.022pF 50V K
C1873	NCB21HJ-221X	C CAP.	220pF 50V J
C1874-75	NDC21HJ-150X	C CAP.	15pF 50V J
C1876	NCB21HK-102X	C CAP.	1000pF 50V K
C1877	NCB21EK-104X	C CAP.	0.1pF 25V K
C1878	NCB21HK-102X	C CAP.	1000pF 50V K
C1879	NCB21HJ-180X	C CAP.	18pF 50V J
C1880	QETN1AM-477Z	E CAP.	47pF 10V M
C1881	NCB21EK-104X	C CAP.	0.1pF 25V K
C1882	QETN1EM-476Z	E CAP.	47pF 25V M
C1883	NCB21HK-103X	C CAP.	0.01pF 50V K
C1885	NCB21EK-104X	C CAP.	0.1pF 25V K
C1886	NCB21HK-103X	C CAP.	0.01pF 50V K
C1887-89	QETN1HM-106Z	E CAP.	10pF 50V M

**COIL**

L1001	QQL01BK-5R6Z	PEAKING COIL	5.6 $\mu$ H
L1002	QQL01BK-270Z	PEAKING COIL	27 $\mu$ H
L1301-02	QQL01BK-4R7Z	PEAKING COIL	4.7 $\mu$ H
L1305	QQL24K-4R7Z	PEAKING COIL	4.7 $\mu$ H
L1501	QQL244J-151Z	PEAKING COIL	150 $\mu$ H
L1701	QQL01BK-4R7Z	PEAKING COIL	4.7 $\mu$ H
L1702	QQL01BK-3R9Z	PEAKING COIL	3.9 $\mu$ H
L1871	QQL01BK-4R7Z	PEAKING COIL	4.7 $\mu$ H

**DIODE**

D1301	MA3051/M/-X	ZENER DIODE	
D1302-04	MA111-X	SI. DIODE	
D1503	RB100A-T2	SI. DIODE	
D1602	MA111-X	SI. DIODE	
D1608-10	MA111-X	SI. DIODE	
D1612-13	MA111-X	SI. DIODE	
D1617-18	MA3330/L/-X	ZENER DIODE	
D1624-25	MA111-X	SI. DIODE	
D1701	MA3068/M/-X	ZENER DIODE	
D1702	MA111-X	SI. DIODE	
D1704	MA111-X	SI. DIODE	
D1705	MA3036-X	ZENER DIODE	
D1706-08	MA111-X	SI. DIODE	
D1710	MA111-X	SI. DIODE	
D1831	MA3051/M/-X	ZENER DIODE	

**TRANSISTOR**

Q1301-02	ZSA1037AK/QR/-X	SI. TRANSISTOR	
Q1309	2SC2412K/QR/-X	SI. TRANSISTOR	
Q1310	ZSA1037AK/QR/-X	SI. TRANSISTOR	
Q1311	DTC124EKA-X	DIGI. TRANSISTOR	
Q1312	ZSA1037AK/QR/-X	SI. TRANSISTOR	
Q1401	DTC124EKA-X	DIGI. TRANSISTOR	
Q1402	2SC2412K/QR/-X	SI. TRANSISTOR	
Q1601	ZSA1037AK/QR/-X	SI. TRANSISTOR	
Q1602-03	DTC323TK-X	DIGI. TRANSISTOR	
Q1604	ZSA1037AK/QR/-X	SI. TRANSISTOR	
Q1609	ZSA1037AK/QR/-X	SI. TRANSISTOR	
Q1610	DTC323TK-X	DIGI. TRANSISTOR	
Q1612	DTC323TK-X	DIGI. TRANSISTOR	
Q1613	ZSA1037AK/QR/-X	SI. TRANSISTOR	
Q1614	2SC2412K/QR/-X	SI. TRANSISTOR	
Q1701-04	2SC2412K/QR/-X	SI. TRANSISTOR	
Q1705-06	ZSA1037AK/QR/-X	SI. TRANSISTOR	
Q1707	2SC2412K/QR/-X	SI. TRANSISTOR	
Q1708	ZSA1037AK/QR/-X	SI. TRANSISTOR	
Q1709-10	2SC2412K/QR/-X	SI. TRANSISTOR	

Symbol No.	Part No.	Part Name	Description
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**TRANSISTOR**

Q1832-33	2SC2412K/QR/-X	SI. TRANSISTOR	
Q1834	ZSA1037AK/QR/-X	SI. TRANSISTOR	
Q1835-37	2SC2412K/QR/-X	SI. TRANSISTOR	
Q1871	ZSA1037AK/QR/-X	SI. TRANSISTOR	
Q1872	2SC2412K/QR/-X	SI. TRANSISTOR	

**IC**

IC1301	TB1227CN	I.C.	
IC1302	TC4053BP/N/	I.C. (DIGI-MOS)	
IC1501	AN5441SA-W	I.C.	
IC1551	LA6515	I.C. (MONO-ANA)	
IC1601	T8246AH	I.C. (HYBRID)	
IC1607	TA87L005AP-T	I.C. (H)	
IC1701	M37280MK-104SP	I.C.	
IC1702	AT24C16-32WFT1	I.C.	(SERVICE)
IC1703	L78LR05E-MA	I.C. (MONO-ANA)	
IC1704	JLC1562BF-X	I.C. (DIGI-MOS)	
IC1831	JCC5035	I.C. (DIGI-MOS)	
IC1832	MN1382/Q/-X	I.C. (MONO-ANA)	
IC1871	ET417	I.C. (M)	
IC1872	ET7206	I.C. (M)	

**OTHERS**

CN1001	QGF1216C1-25	FFC CONNECTOR	
J1001	QNN0296-001	PIN JACK	
K1001-02	CE41433-001Z	BEADS CORE	
K1004	CE41433-001Z	BEADS CORE	
K1307	CE41433-001Z	BEADS CORE	
K1601-02	CE42681-001Y	BEADS CORE	
K1872	CE41433-001Z	BEADS CORE	
LC1301	CE42142-222Z	EMI FILTER	

TU1001	QAU0188-001	TUNER	
W1229	NRSA02J-0ROX	MG R	0.02 1/10W J
W132-33	NRSA02J-0ROX	MG R	0.02 1/10W J
W1235-37	NRSA02J-0ROX	MG R	0.02 1/10W J
W1239-42	NRSA02J-0ROX	MG R	0.02 1/10W J
W1245	NRSA02J-0ROX	MG R	0.02 1/10W J
X1301	QAX0305-001Z	CRYSTAL	
X1701	CST8.00MTW	CER. RESONATOR	
X1831	QAX0624-001Z	C RESONATOR	
X1871	CE41257-001Z	CRYSTAL	
Y1611-13	NRSA02J-0ROX	MG R	0.02 1/10W J
Y1618-19	NRSA02J-0ROX	MG R	0.02 1/10W J
Y1871	NRSA02J-0ROX	MG R	0.02 1/10W J

## POWER &amp; DEF. PW BOARD ASS'Y (SJK-2501A-U2)

△	Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>				
	R2401	QRA14CF-5601Y	MF R	5.6kΩ 1/4W F
	R2402	QRA14CF-6801Y	MF R	6.8kΩ 1/4W F
	R2403	QRE141J-332Y	C R	3.3kΩ 1/4W J
	R2404	QRE141J-821Y	C R	820Ω 1/4W J
	R2405	QRA14CF-8200Y	MF R	820Ω 1/4W F
	R2406	QRE141J-103Y	C R	10kΩ 1/4W J
	R2409	QRE141J-103Y	C R	10kΩ 1/4W J
	R2410	QRE141J-102Y	C R	1kΩ 1/4W J
	R2414	QRE121J-3R9Y	C R	3.9Ω 1/2W J
	R2415	QRX016J-1R8	MF R	1.8Ω 1W J
	R2416	QRG016J-820	OM R	82Ω 1W J
	R2417	QRE121J-1R0Y	C R	1.0Ω 1/2W J
	R2461	QRE141J-331Y	C R	330Ω 1/4W J
△	R2463-64	QRE121J-392Y	C R	3.9kΩ 1/2W J
	R2465	QRE121J-822Y	C R	8.2kΩ 1/2W J
	R2466	QRE121J-102Y	C R	1kΩ 1/2W J
	R2467	QRG039J-120	OM R	12Ω 3W J
	R2492	QRE141J-683Y	C R	68kΩ 1/4W J
△	R2493	QRE141J-224Y	C R	220kΩ 1/4W J
△	R2494	QRZ017-4R7	F R	4.7Ω 1/4W J
	R2495	QRE141J-103Y	C R	10kΩ 1/4W J
	R2496	QRE141J-183Y	C R	18kΩ 1/4W J
	R2497	QRE141J-153Y	C R	15kΩ 1/4W J
	R2502	QRE141J-222Y	C R	2.2kΩ 1/4W J
	R2503	QRE121J-152Y	C R	1.5kΩ 1/2W J
△	R2504-05	QRLO39J-332	OM R	3.3kΩ 3W J
	R2521	QRE121J-150Y	C R	15Ω 1/2W J
	R2522	QRLO39J-103	OM R	10kΩ 3W J
	R2523	QRE121J-471Y	C R	470Ω 1/2W J
△	R2524	QRZ017-4R7	F R	4.7Ω 1/4W J
△	R2525	QRE141J-332Y	C R	3.3kΩ 1/4W J
△	R2541	QRE121J-103Y	C R	10kΩ 1/2W J
	R2542	QRE121J-222Y	C R	2.2kΩ 1/2W J
	R2543	QRE121J-124Y	C R	120kΩ 1/2W J
	R2544	QRE121J-104Y	C R	100kΩ 1/2W J
	R2545	QRE141J-123Y	C R	12kΩ 1/4W J
	R2546	QRE121J-104Y	C R	100kΩ 1/2W J
	R2547	QRE141J-123Y	C R	12kΩ 1/4W J
	R2548	QRE121J-222Y	C R	2.2kΩ 1/2W J
△	R2551-52	QRT039J-3R3	MF R	3.3Ω 3W J
	R2553	QRF104K-5R6	UNF R	5.6Ω 10W K
△	R2554	QRZ021-1R5	F R	1.5Ω 1W J
△	R2555	QRZ011-4R7	F R	4.7Ω 1/2W J
△	R2556	QRZ021-100	FUSI. RESISTOR	10Ω 1W J
△	R2557	QRZ021-100	FUSI. RESISTOR	10Ω 1W J
	R2561	QRLO29J-220	OM R	22Ω 2W J
	R2562	QRE121J-123Y	C R	12kΩ 1/2W J
	R2563	QRZ0056-103Z	COMP.R	10kΩ 1/2W K
	R2591	QRE121J-123Y	C R	12kΩ 1/2W J
	R2592	QRA14CF-1201Y	MF R	1.2kΩ 1/4W F
	R2593	QRE141J-183Y	C R	18kΩ 1/4W J
△	R2594	QRE141J-222Y	C R	2.2kΩ 1/4W J
△	R2595	QRA14CF-8451Y	MF R	8.45kΩ 1/4W F
△	R2596	QRA14CF-1201Y	MF R	1.2kΩ 1/4W F
	R2597	QRE141J-273Y	C R	27kΩ 1/4W J
△	R2902	QRE121J-331Y	C R	330Ω 1/2W J
	R2903	QRF104K-3R9	UNF R	3.9Ω 10W K
△	R2904-05	QRE121J-474Y	C R	470kΩ 1/2W J
△	R2907-08	QRLO39J-823	OM R	82kΩ 3W J
	R2909	QRG039J-683	OM R	68kΩ 3W J
	R2910	QRE121J-681Y	C R	680Ω 1/2W J
	R2911	QRM059J-R15	MP R	0.15Ω 5W J
	R2912	QRT029J-2R2	MF R	2.2Ω 2W J
△	R2913	QRZ017-100	FUSI. RESISTOR	10Ω 1/4W J
	R2914	QRE121J-272Y	C R	2.7kΩ 1/2W J
	R2918	QRE121J-332Y	C R	3.3kΩ 1/2W J
	R2933	QRE141J-102Y	C R	1kΩ 1/4W J
	R2935	QRE141J-473Y	C R	47kΩ 1/4W J
	R2936	QRE141J-103Y	C R	10kΩ 1/4W J

△	Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>				
	R2938	QRE121J-102Y	C R	1kΩ 1/2W J
	R2940	QRE121J-390Y	C R	39Ω 1/2W J
	R2964	QRE121J-102Y	C R	1kΩ 1/2W J
	R2967	QRLO39J-223	OM R	22kΩ 3W J
	R2976	QRLO29J-100	OM R	100Ω 2W J
△	R2991	QRZ0057-825	C R	8.2MΩ 1W J
<b>CAPACITOR</b>				
	C2401	QEHR1VM-227Z	E CAP.	220μF 35V M
	C2402	QETM1VM-108	E CAP.	1000μF 35V M
	C2403	QFLC2AJ-683Z	M CAP.	0.068μF 100V J
	C2404	QETN1HM-105Z	E CAP.	1μF 50V M
	C2405	QFLC1HJ-472Z	M CAP.	4700pF 50V J
	C2406	QCZ0337-180Z	C CAP.	18pF 2kV J
	C2407	QFLC1HJ-102Z	M CAP.	1000pF 50V J
	C2408	QFV71HJ-334Z	MF CAP.	0.33μF 50V J
	C2410	QFV71HJ-334Z	MF CAP.	0.33μF 50V J
	C2411	QFLC2AJ-563Z	M CAP.	0.056μF 100V J
	C2451	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
	C2461	QETN2AM-475Z	E CAP.	4.7μF 100V M
	C2462	QETN1HM-106Z	E CAP.	10μF 50V M
	C2463	QFLC1HJ-153Z	M CAP.	0.015μF 50V J
	C2464	QFLC1HJ-333Z	M CAP.	0.033μF 50V J
	C2491	QETN1HM-105Z	E CAP.	1μF 50V M
	C2492	QETN1HM-106Z	E CAP.	10μF 50V M
	C2502	QCB32HK-681Z	C CAP.	680pF 500V K
	C2503	QEHR2CM-105Z	E CAP.	1μF 160V M
△	C2521	QFZ0200-302	MPP CAP.	3000pF 1.5kVH ±3%
△	C2522	QFZ0200-113	MPP CAP.	0.011μF 1.5kVH ±3%
△	C2523	QFP32GJ-223	PP CAP.	0.022μF 400V J
	C2524	QFM72DK-104	M CAP.	0.1μF 200V K
	C2525	QFZ0199-354	MPP CAP.	0.35μF 250V J
	C2526	QFZ0199-304	MPP CAP.	0.3μF 250V J
	C2527	QER2EM-475Z	E CAP.	4.7μF 250V M
	C2528	QFZ0199-683	MPP CAP.	0.068μF 250V J
	C2529	QFZ0199-104	MPP CAP.	0.1μF 250V J
	C2530	QCB32HK-561Z	C CAP.	560pF 500V K
	C2531	QFLC1HJ-103Z	M CAP.	0.01μF 50V J
	C2532	QFZ0199-334	MPP CAP.	0.33μF 250V J
	C2542	QFZ0199-204	MPP CAP.	0.2μF 250V J
	C2543	QFZ0199-104	MPP CAP.	0.1μF 250V J
	C2551	QETN2EM-106Z	E CAP.	10μF 250V M
	C2552	QCB32HK-152Z	C CAP.	1500pF 500V K
	C2553	QEHR1EM-108Z	E CAP.	1000μF 25V M
	C2554	QCB32HK-152Z	C CAP.	1500pF 500V K
	C2555	QEHR1EM-108Z	E CAP.	1000μF 25V M
	C2560	QETM2CM-227	E CAP.	220μF 160V M
	C2561	QFLC1HJ-683Z	M CAP.	0.068μF 50V J
	C2566	QFZ0117-1002	MPP CAP.	0.01pF 1.4kVH ±2.5%
	C2591	QETN1AM-107Z	E CAP.	100pF 10V M
	C2592	QETN1EM-476Z	E CAP.	47pF 25V M
	C2593	QETN2AM-106Z	E CAP.	10pF 100V M
	C2594	QETN1AM-227Z	E CAP.	220pF 10V M
△	C2901	QFZ040-473	MF CAP.	0.047pFAC275V M
△	C2904	QCZ9054-472	C CAP.	4700pFAC250V Z
△	C2905	QCZ9054-472	C CAP.	4700pFAC250V Z
△	C2906	QCZ9054-472	C CAP.	4700pFAC250V M
	C2907	QEZO199-227	E CAP.	220pF 400V M
	C2908	QCB32HK-103	C CAP.	0.01μF 500V K
	C2909	QCZ0122-391	C CAP.	390pF 2kV K
	C2910	QCZ0122-102	C CAP.	1000pF 2kV K
	C2912	QCB31HK-222Z	C CAP.	2200pF 50V K
	C2913	QETN1HM-476Z	E CAP.	47μF 50V M
	C2916	QETN1HM-107Z	E CAP.	100pF 50V M
	C2918	QCB31HK-681Z	C CAP.	680pF 50V K
	C2933-34	QETN1HM-106Z	E CAP.	10pF 50V M
	C2935	QETN1EM-227Z	E CAP.	220pF 25V M
	C2951	QCZ0122-561	C CAP.	560pF 2kV K

△	Symbol No.	Part No.	Part Name	Description
<b>CAPACITOR</b>				
C2952	QEZO203-227	E CAP.	220μF 160V	M
C2953	QCB32HK-391Z	C CAP.	390μF 500V	K
C2954	QEHQ1EM-228	E CAP.	2200μF 25V	H
C2955	QCB32HK-391Z	C CAP.	390μF 500V	K
C2956	QEHQ1CM-228	E CAP.	2200μF 16V	M
C2958	QCB32HK-391Z	C CAP.	390μF 500V	K
C2959	QETW1VM-228	E CAP.	2200μF 35V	M
C2964	QFV71HJ-684Z	MF CAP.	0.68μF 50V	J
C2968	QCZ0120-104Z	C CAP.	0.1μF 25V	Z
C2969	QEHR1CM-477Z	E CAP.	470μF 16V	M
C2970	QEHR1CM-107Z	E CAP.	100μF 16V	H
C2971	QCZ0120-104Z	C CAP.	0.1μF 25V	Z
C2972	QETN1CM-227Z	E CAP.	220μF 16V	M
C2973	QETN1EM-476Z	E CAP.	47μF 25V	M
C2974	QCZ0120-104Z	C CAP.	0.1μF 25V	Z
C2975	QETN1AM-227Z	E CAP.	220μF 10V	M
C2976	QETN1EM-476Z	E CAP.	47μF 25V	M
C2979	QFV71HJ-104Z	MF CAP.	0.1μF 50V	J
△ C2991	QCZ079-332	C CAP.	3300pFAC250V	M
△ C2992	QCZ079-471	C CAP.	470pFAC250V	K
<b>TRANSFORMER</b>				
T2501	CE42034-002	H.DRIVE TRANSF.		
T2521	CE42549-001J1	BRIGE COIL		
△ T2551	QHH0065-002-I2	FBT		
T2561	QRO898-001	DEF. TRANSF.		
△ T2901	Q50065-001	SW TRANSF.		
△ T2921	QQT0303-001	POWER TRANSF.		
<b>COIL</b>				
L2461	QQLZ028-822	CHOKE COIL		
L2521	QQLZ028-101	CHOKE COIL		
L2522	QQR1106-002	LINEARITY COIL		
L2561	QQLZ028-272	CHOKE COIL		
△ L2901-02	QL402K-100	COIL		10μH
L2903	QQR0659-004	CHOKE COIL		
L2951	QQLZ026-460	HEATER CHOKE		
L2952	QL26AK-820Z	CHOKE COIL		
L2953-54	QL26AM-5R6Z	CHOKE COIL		
<b>DIODE</b>				
D2401	MTZJ75-T2	ZENER DIODE		
D2402	1N4003-T2	SI.DIODE		
D2403	1SS133-T2	SI.DIODE		
D2451	BYD33D-T3	SI.DIODE		
D2491	BYD33D-T3	SI.DIODE		
D2492	MTZJ22B-T2	ZENER DIODE		
D2493-94	1SS133-T2	SI.DIODE		
D2521	RH3G-F1	SI.DIODE		
D2522	BYW95B-20	SI.DIODE		
D2523	BYD33G-T3	SI.DIODE		
D2524	1SS133-T2	SI.DIODE		
D2525	MTZJ9.1B-T2	ZENER DIODE		
D2551	BYD33G-T3	SI.DIODE		
D2553-54	BYW95B-20	SI.DIODE		
D2555-56	MTZJ11C-T2	ZENER DIODE		
D2591	MTZJ15B-T2	ZENER DIODE		
D2592	MTZJ7.5B-T2	ZENER DIODE		
D2593	BYD33D-T3	SI.DIODE		
D2594	MTZJ7.5S-T2	ZENER DIODE		
△ D2901	D35BA60	DIODE BRIDGE		
D2902	BYD33M-T3	SI.DIODE		
D2904-05	BYD33D-T3	SI.DIODE		
D2909	1SS133-T2	SI.DIODE		
D2911	MTZJ15B-T2	ZENER DIODE		
D2913	MTZJ27B-T2	ZENER DIODE		
D2931	1SS133-T2	SI.DIODE		

△	Symbol No.	Part No.	Part Name	Description
<b>DIODE</b>				
D2934	MTZJ6.2B-T2	ZENER DIODE		
D2935-38	1N4003-T2	SI.DIODE		
D2939	1SS133-T2	SI.DIODE		
D2951	RU4B-F1	SI.DIODE		
D2953-54	BYW95B-20	SI.DIODE		
D2955	FMX-G12S	SI.DIODE		
D2958	1SR35-400A-T2	SI.DIODE		
D2963	MTZJ3.9B-T2	ZENER DIODE		
D2964	MTZJ33B-T2	ZENER DIODE		
D2981-83	1SS133-T2	SI.DIODE		
D2985	MTZJ7.5C-T2	ZENER DIODE		
<b>TRANSISTOR</b>				
Q2402	2SC1740S/QR/-T	SI.TRANSISTOR		
Q2461	2SD1408/QY/-LB	SI.TRANSISTOR		
Q2462-63	2SA933AS/QR/-T	SI.TRANSISTOR		
Q2501	BSN304-T	F.E.T.		
△ Q2521	2SD2553-LB	SI.TRANSISTOR		H.OUT
Q2541-42	DTC124ESA-T	DIGI.TRANSISTOR		
Q2543	IRF620	F.E.T.		
Q2544-45	2SK2459N-F54	F.E.T.		
Q2546	DTC124ESA-T	DIGI.TRANSISTOR		
Q2591	2SA949/Y/Z1-T	SI.TRANSISTOR		
Q2592	DTC124ESA-T	DIGI.TRANSISTOR		
Q2593	2SC1740S/QR/-T	SI.TRANSISTOR		
Q2931-32	2SC1740S/QR/-T	SI.TRANSISTOR		
Q2933	2SC2655/Y-T	SI.TRANSISTOR		
<b>IC</b>				
△ IC2401	LA7841	I.C.(MONO-ANA)		
IC2901	STR-F6667B/F7	I.C.		
IC2951	SE140N	I.C.(HYBRID)		
IC2952	BA12T	I.C.(MONO-ANA)		
IC2953	BA17809T	I.C.(MONO-ANA)		
IC2954	BA05T	I.C.(MONO-ANA)		
<b>OTHERS</b>				
△ CP2953	ICP-N75-Y	I.C. PROTECT		
CP2956	ICP-N10-Y	I.C. PROTECT		
△ CP2957	ICP-NS-Y	I.C. PROTECT		
K2401	CE41433-001Z	BEADS CORE		
K2501-02	CE41433-001Z	BEADS CORE		
K2503-04	QQR0582-001Z	BEADS CORE		
K2902	QQR0679-001	FERRITE BEADS		
K2951	QQR0872-001Y	FERRITE BEADS		
K2952-54	CE41433-001Z	BEADS CORE		
PC2541-42	PC123F2	I.C.(PH.COUPLER)		
△ PC2901	TLF721F(D4-GR)	I.C.(PH.COUPLER)		
△ RY2931	QSK0099-001	RELAY		
△ TH2901	QAD0120-9R0	P THERMISTOR		

**CRT SOCKET PW BOARD ASS'Y (SJK-3501A-U2)**

△	Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>				

R3101-03	NRSA02J-101X	MG R	100Ω 1/10W J
R3107-09	NRSA02J-392X	MG R	3.9kΩ 1/10W J
R3110-12	NRSA02J-221X	MG R	220Ω 1/10W J
R3113-15	NRSA02J-470X	MG R	47Ω 1/10W J
R3116-18	QRL029J-153	OM R	15kΩ 2W J
R3119-21	QRL029J-183	OM R	18kΩ 2W J
R3125-27	QRZ0107-102Z	C R	1kΩ 1/2W K
R3130	QRG01GJ-101	OM R	100Ω 1W J
R3135	QRZ0107-474Z	C R	470kΩ 1/2W K
R3136	QRE121J-474Y	C R	470kΩ 1/2W J
R3137	QRZ0107-102Z	C R	1kΩ 1/2W K
R3138	QRE121J-105Y	C R	1MΩ 1/2W J
R3151	NRSA02J-102X	MG R	1kΩ 1/10W J
R3152	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R3154	NRSA02J-OROX	MG R	0.0Ω 1/10W J
R3303	NRSA02J-101X	MG R	100Ω 1/10W J
R3312	NRSA02J-153X	MG R	15kΩ 1/10W J
R3313	NRSA02J-152X	MG R	1.5kΩ 1/10W J
R3314	NRSA02J-101X	MG R	100Ω 1/10W J
R3315	NRSA02J-221X	MG R	220Ω 1/10W J
R3316	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R3317	NRSA02J-470X	MG R	47Ω 1/10W J
△ R3318	QRJ146J-100X	C R	10Ω 1/4W J
R3319	NRSA02J-470X	MG R	47Ω 1/10W J
R3320	NRSA02J-122X	MG R	1.2kΩ 1/10W J
R3321	NRSA02J-390X	MG R	39Ω 1/10W J
R3322	QRE121J-2R7Y	C R	2.7Ω 1/2W J
R3323-24	QRE121J-563Y	C R	56kΩ 1/2W J
R3325	NRSA02J-122X	MG R	1.2kΩ 1/10W J
R3326	QRE121J-2R7Y	C R	2.7Ω 1/2W J
R3327	NRSA02J-390X	MG R	39Ω 1/10W J
R3328	NRSA02J-121X	MG R	120Ω 1/10W J
R3329	QRL029J-391	OM R	390Ω 2W J

**CAPACITOR**

C3101-03	NDC21HJ-471X	C CAP.	470pF 50V J
C3104	QETN1CN-107Z	E CAP.	100μF 16V M
C3105	QETN1EN-476Z	E CAP.	47μF 25V M
C3107	QETN1HH-106Z	E CAP.	10μF 50V M
C3113	QCZ0131-222	C CAP.	2200pF 2000V K
C3114	QETM2EN-225	E CAP.	2.2μF 250V M
C3115	QETM2EN-106	E CAP.	10μF 250V M
C3116	NDC21HJ-471X	C CAP.	470pF 50V J
C3304	NCB21HK-103X	C CAP.	0.01μF 50V K
C3305	QETN1HH-335Z	E CAP.	3.3μF 50V M
C3306	QETN1CM-107Z	E CAP.	100μF 16V M
C3307	NDC21HJ-5R0X	C CAP.	5.0μF 50V J
C3308	QETN2CM-106Z	E CAP.	10μF 160V M
C3309	QCB32HK-472Z	C CAP.	4700pF 500V K
C3310	QETN2CM-106Z	E CAP.	10μF 160V M
C3311	NDC21HJ-821X	C CAP.	820pF 50V J
C3312	QCB32HK-472Z	C CAP.	4700pF 500V K
C3313	NDC21HJ-561X	C CAP.	560pF 50V J
C3314	QETN1CH-107Z	E CAP.	100μF 16V M
C3315	QCS32HJ-580Z	C CAP.	68μF 500V J
C3316	QETN1CH-107Z	E CAP.	100μF 16V M
C3317	QETN1AM-337Z	E CAP.	330pF 10V M

**COIL**

L3301	QQL244J-391Z	COIL	390μH
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△	Symbol No.	Part No.	Part Name	Description
<b>DIODE</b>				

D3151	MA111-X	SI.DIODE
D3153-55	MA111-X	SI.DIODE
D3156	MA3047/H/-X	ZENER DIODE
D3163	MA3150/M/-X	ZENER DIODE
D3164	1SR35-400A-T2	SI.DIODE
D3302-03	RH15-T3	SI.DIODE

△	Symbol No.	Part No.	Part Name	Description
<b>TRANSISTOR</b>				

Q3101-03	2SC1740S/QR/-T	SI.TRANSISTOR
Q3104-06	2SC4544-LB	SI.TRANSISTOR
Q3151	2SA1037AK/QR/-X	SI.TRANSISTOR
Q3152	2SC4682-T	SI.TRANSISTOR
Q3304-05	2SC1740S/QR/-T	SI.TRANSISTOR
Q3306	2SA933AS/QR/-T	SI.TRANSISTOR
Q3307	2SA1837	SI.TRANSISTOR
Q3308	2SC4793	SI.TRANSISTOR

△	Symbol No.	Part No.	Part Name	Description
<b>OTHERS</b>				

△ FR3330	QRZ9021-561	FUSI.RESISTOR	560 Ω 1W J
K3101	CE41433-001Z	BEADS CORE	
K3301-04	CE41492-001Z	CHOKE COIL	
△ SK3001	CE42670-001	C.R.T.SOCKET	
W3003	NRSA02J-OROX	MG R	0.0Ω 1/10W J
W3006	NRSA02J-OROX	MG R	0.0Ω 1/10W J
W3012	NRSA02J-OROX	MG R	0.0Ω 1/10W J
W3014	NRSA02J-OROX	MG R	0.0Ω 1/10W J
W3016-17	NRSA02J-OROX	MG R	0.0Ω 1/10W J
W3019	NRSA02J-OROX	MG R	0.0Ω 1/10W J
W3022	NRSA02J-OROX	MG R	0.0Ω 1/10W J
Y3152	NRSA02J-OROX	MG R	0.0Ω 1/10W J

AV-32WFT1EPG/EPSS

**FRONT CONTROL PW BOARD ASS'Y  
(SJK-8501A-U2)**

△ Symbol No.	Part No.	Part Name	Description	
<b>RESISTOR</b>				
R8301	NRSA02J-750X	MG R	750 1/10W J	
R8801-02	NRSA02J-561X	MG R	560Ω 1/10W J	
R8804-06	NRSA02J-102X	MG R	1kΩ 1/10W J	
R8807-09	NRSA02J-103X	MG R	10kΩ 1/10W J	
R8810-11	QRE121J-271Y	C R	270Ω 1/2W J	
R8812-13	NRSA02J-102X	MG R	1kΩ 1/10W J	
R8815-16	NRSA02J-471X	MG R	470Ω 1/10W J	
R8851	NRSA02J-682X	MG R	6.8kΩ 1/10W J	
R8861	NRSA02J-562X	MG R	5.6kΩ 1/10W J	
R8863	NRSA02J-472X	MG R	4.7kΩ 1/10W J	
R8864	NRSA02J-222X	MG R	2.2kΩ 1/10W J	
<b>CAPACITOR</b>				
C8301-02	NCB21HK-472X	C CAP.	4700pF 50V K	
C8303	NCB21EK-104X	C CAP.	0.1μF 25V K	
C8801-02	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	
C8805	NCB21HK-103X	C CAP.	0.01μF 50V K	
C8851	NCB21EK-104X	C CAP.	0.1μF 25V K	
C8852	QETN1CH-107Z	E CAP.	100μF 16V M	
C8861	QETN1HM-106Z	E CAP.	10μF 50V M	
△ C8901	QFZ9040-474	MF CAP.	0.47μFAC275V M	
<b>COIL</b>				
L8301	QQL211K-270Y	PEAKING COIL	27μH	
L8302	QQR0716-001Z	LEAD CORE		
L8303	QQL211K-270Y	PEAKING COIL	27μH	
L8801-02	QQL211K-5R6Y	PEAKING COIL	5.6μH	
L8803	QQR0716-001Z	LEAD CORE		
<b>DIODE</b>				
D8801	SPR-39MWF	L.E.D.		
D8802	SLR-342YY-T16	L.E.D. (YLW)		
D8803	SLR-342DU-T16	L.E.D. (ORG)		
D8804	SLR-342MG-T16	L.E.D. (GRN)		
D8805	MA111-X	SI.DIODE		
D8851	MA3068/M-X	ZENER DIODE		
D8861	MA111-X	SI.DIODE		
D8862	P1241-04	C.D.S.		
<b>TRANSISTOR</b>				
Q8801-02	DTA124EKA-X	DIGI. TRANSISTOR		
Q8803	2SA1037AK/QR/-X	SI. TRANSISTOR		
Q8804	DTC124EKA-X	DIGI. TRANSISTOR		
Q8805	2SA1037AK/QR/-X	SI. TRANSISTOR		
Q8861	2SA1037AK/QR/-X	SI. TRANSISTOR		
<b>IC</b>				
IC8851	GP1U281Q	IFR DETECT UNIT		
<b>OTHERS</b>				
△ CN8001	LC30596-001B-C	LED HOLDER		
	CM35921-005-H	CDS HOLDER		
	CEMG002-001Z	FUSE CLIP		
	QGF1216C1-25	FPC CONNECTOR		
	QMF5102-3R15J1	FUSE	3.15A	
	J8901	S JACK		
	J8301	QND0073-001		
△ J8302	QNN0279-003	PIN JACK		
	J8303	QNN0279-002	PIN JACK	
△ J8304	QNN0279-001	PIN JACK		
	J8801	QMS3004-C01	HEADPHONE JACK	
△ LF8901	QQR1095-001	LINE FILTER		
	S8801	QSW0619-003Z	PUSH SWITCH	
	S8802	QSW0619-003Z	PUSH SWITCH	
△ S8803	QSW0619-003Z	PUSH SWITCH	VR	
	S8804	QSW0619-003Z	PUSH SWITCH	▽(DOWN)
	S8805	QSW0619-003Z	PUSH SWITCH	△(UP)
△ S8901	QSW0824-001	PUSH SWITCH	MAIN POWER	
	W8015	NRSA02J-OR0X	MG R	0.0Ω 1/10W J
W8023	NRSA02J-OR0X	MG R	0.0Ω 1/10W J	

**AV SEL. PW BOARD ASS'Y (SJK0S701A-U2)**

Refer to PARTS LIST in page 48 for this P.W. board.

## AV-32WFT1EKS

## PRINTED WIRING BOARD PARTS LIST

## MAIN PW BOARD ASS'Y (SJK-1901A-U2)

△	Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>				
R1001-06	NRSA02J-102X	MG R	1kΩ 1/10W	J
R1007	NRSA02J-104X	MG R	100kΩ 1/10W	J
R1008	NRSA02J-0R0X	MG R	0.0Ω 1/10W	J
R1301	NRSA02J-103X	MG R	10kΩ 1/10W	J
R1302	NRSA02J-183X	MG R	18kΩ 1/10W	J
R1303	NRSA02J-153X	MG R	15kΩ 1/10W	J
R1304	QRG01GJ-121	OH R	120Ω 1W	J
R1305	NRSA02J-562X	MG R	5.6kΩ 1/10W	J
R1306	NRSA02J-222X	MG R	2.2kΩ 1/10W	J
R1307-08	NRSA02J-102X	MG R	1kΩ 1/10W	J
R1309	NRSA02J-222X	MG R	2.2kΩ 1/10W	J
R1310-11	NRSA02J-391X	MG R	390Ω 1/10W	J
R1312-13	NRSA02J-101X	MG R	100Ω 1/10W	J
R1314	NRSA02J-562X	MG R	5.6kΩ 1/10W	J
R1316	NRSA02J-224X	MG R	220kΩ 1/10W	J
R1317	NRSA02J-101X	MG R	100Ω 1/10W	J
R1318-21	NRSA02J-102X	MG R	1kΩ 1/10W	J
R1327	NRSA02J-0R0X	MG R	0.0Ω 1/10W	J
R1328-29	NRSA02J-102X	MG R	1kΩ 1/10W	J
R1330	NRSA02J-472X	MG R	4.7kΩ 1/10W	J
R1331	NRSA02J-333X	MG R	33kΩ 1/10W	J
R1332-33	NRSA02J-222X	MG R	2.2kΩ 1/10W	J
R1335	NRSA02J-273X	MG R	27kΩ 1/10W	J
R1336	NRSA02J-103X	MG R	10kΩ 1/10W	J
R1337	NRSA02J-102X	MG R	1kΩ 1/10W	J
R1338	NRSA02J-562X	MG R	5.6kΩ 1/10W	J
R1339	NRSA02J-102X	MG R	1kΩ 1/10W	J
R1340-41	NRSA02J-333X	MG R	33kΩ 1/10W	J
R1342	NRSA02J-152X	MG R	1.5kΩ 1/10W	J
R1343	NRSA02J-272X	MG R	2.7kΩ 1/10W	J
R1344	NRSA02J-471X	MG R	470Ω 1/10W	J
R1345	NRSA02J-102X	MG R	1kΩ 1/10W	J
R1346	NRSA02J-223X	MG R	22kΩ 1/10W	J
R1401-02	NRSA02J-103X	MG R	10kΩ 1/10W	J
R1403	NRSA02J-102X	MG R	1kΩ 1/10W	J
R1404	NRSA02J-183X	MG R	18kΩ 1/10W	J
R1405	NRSA02J-223X	MG R	22kΩ 1/10W	J
R1409	NRSA02J-0R0X	MG R	0.0Ω 1/10W	J
R1411	NRVA02D-473X	MF R	47kΩ 1/10W	D
R1413	NRVA02D-223X	MF R	22kΩ 1/10W	D
R1414	NRVA02D-101X	MF R	100Ω 1/10W	D
R1415	NRSA02J-562X	MG R	5.6kΩ 1/10W	J
R1416	NRSA02J-101X	MG R	100Ω 1/10W	J
R1417	NRSA02J-223X	MG R	22kΩ 1/10W	J
R1418	NRSA02J-682X	MG R	6.8kΩ 1/10W	J
R1419	NRSA02J-562X	MG R	5.6kΩ 1/10W	J
R1420	NRSA02J-123X	MG R	12kΩ 1/10W	J
R1501	NRSA02J-621X	MG R	620Ω 1/10W	J
R1502	NRSA02J-103X	MG R	10kΩ 1/10W	J
R1503	NRSA02J-104X	MG R	100kΩ 1/10W	J
R1504	NRSA02J-103X	MG R	10kΩ 1/10W	J
R1505-06	NRSA02J-221X	MG R	220Ω 1/10W	J
R1507	NRSA02J-102X	MG R	1kΩ 1/10W	J
R1508-09	NRSA02J-223X	MG R	22kΩ 1/10W	J
R1511	NRSA02J-0R0X	MG R	0.0Ω 1/10W	J
R1514	NRSA02J-472X	MG R	4.7kΩ 1/10W	J
R1516	NRSA02J-222X	MG R	2.2kΩ 1/10W	J
R1517	NRSA02J-472X	MG R	4.7kΩ 1/10W	J
R1518	NRSA02J-682X	MG R	6.8kΩ 1/10W	J
R1519	NRSA02J-562X	MG R	5.6kΩ 1/10W	J
R1520	NRSA02J-152X	MG R	1.5kΩ 1/10W	J
R1551	QRE121J-100Y	C R	10Ω 1/2W	J
R1552	NRSA02J-124X	MG R	120kΩ 1/10W	J

△	Symbol No.	Part No.	Part Name	Description
<b>RESISTOR</b>				
R1553	NRSA02J-683X	MG R	68kΩ 1/10W	J
R1554	NRSA02J-333X	MG R	33kΩ 1/10W	J
R1555	NRSA02J-472X	MG R	4.7kΩ 1/10W	J
R1556	NRSA02J-154X	MG R	150kΩ 1/10W	J
R1557-58	NRSA02J-562X	MG R	5.6kΩ 1/10W	J
R1559	NRSA02J-0R0X	MG R	0.0Ω 1/10W	J
R1560	NRSA02J-104X	MG R	100kΩ 1/10W	J
R1561	QRE121J-100Y	C R	10Ω 1/2W	J
R1571	NRSA02J-101X	MG R	100Ω 1/10W	J
R1572	NRSA02J-133X	MG R	13kΩ 1/10W	J
R1573	NRSA02J-821X	MG R	820Ω 1/10W	J
R1602	NRSA02J-104X	MG R	100kΩ 1/10W	J
R1604	NRSA02J-393X	MG R	39kΩ 1/10W	J
R1605	NRSA02J-681X	MG R	680Ω 1/10W	J
R1606	NRSA02J-393X	MG R	39kΩ 1/10W	J
R1607	NRSA02J-681X	MG R	680Ω 1/10W	J
R1608-09	NRSA02J-223X	MG R	22kΩ 1/10W	J
R1610-11	NRSA02J-822X	MG R	8.2kΩ 1/10W	J
R1633	NRSA02J-273X	MG R	27kΩ 1/10W	J
R1638	NRSA02J-473X	MG R	47kΩ 1/10W	J
R1648	NRSA02J-104X	MG R	100kΩ 1/10W	J
R1649	NRSA02J-682X	MG R	6.8kΩ 1/10W	J
R1650	NRSA02J-104X	MG R	100kΩ 1/10W	J
R1660	QRK126J-2R2X	C R	2.2Ω 1/2W	J
R1661	NRSA02J-103X	MG R	10kΩ 1/10W	J
R1663	NRSA02J-561X	MG R	560Ω 1/10W	J
R1664	NRSA02J-562X	MG R	5.6kΩ 1/10W	J
R1683	QRK126J-2R2X	C R	2.2Ω 1/2W	J
R1689	NRSA02J-473X	MG R	47kΩ 1/10W	J
R1690	QRG01GJ-270	OH R	27Ω 1W	J
R1701	NRSA02J-221X	MG R	220Ω 1/10W	J
R1702	NRSA02J-822X	MG R	8.2kΩ 1/10W	J
R1703	NRSA02J-273X	MG R	27kΩ 1/10W	J
R1704	NRSA02J-473X	MG R	47kΩ 1/10W	J
R1705	NRSA02J-102X	MG R	1kΩ 1/10W	J
R1706	NRSA02J-223X	MG R	22kΩ 1/10W	J
R1707-12	NRSA02J-103X	MG R	10kΩ 1/10W	J
R1713-14	NRSA02J-102X	MG R	1kΩ 1/10W	J
R1716	NRSA02J-102X	MG R	1kΩ 1/10W	J
R1717	NRSA02J-104X	MG R	100kΩ 1/10W	J
R1718-19	NRSA02J-682X	MG R	6.8kΩ 1/10W	J
R1720	NRSA02J-472X	MG R	4.7kΩ 1/10W	J
R1721	NRSA02J-103X	MG R	10kΩ 1/10W	J
R1722	NRSA02J-472X	MG R	4.7kΩ 1/10W	J
R1723	NRSA02J-102X	MG R	1kΩ 1/10W	J
R1724-28	NRSA02J-472X	MG R	4.7kΩ 1/10W	J
R1729-31	NRSA02J-221X	MG R	220Ω 1/10W	J
R1732	NRSA02J-562X	MG R	5.6kΩ 1/10W	J
R1733	NRSA02J-103X	MG R	10kΩ 1/10W	J
R1734	NRSA02J-223X	MG R	22kΩ 1/10W	J
R1736-39	NRSA02J-103X	MG R	10kΩ 1/10W	J
R1740	NRSA02J-331X	MG R	330Ω 1/10W	J
R1741-44	NRSA02J-102X	MG R	1kΩ 1/10W	J
R1745-47	NRSA02J-472X	MG R	4.7kΩ 1/10W	J
R1748-52	NRSA02J-221X	MG R	220Ω 1/10W	J
R1753	NRSA02J-102X	MG R	1kΩ 1/10W	J
R1754	NRSA02J-683X	MG R	68kΩ 1/10W	J
R1755	NRSA02J-102X	MG R	1kΩ 1/10W	J
R1756	NRSA02J-103X	MG R	10kΩ 1/10W	J
R1758	NRSA02J-103X	MG R	10kΩ 1/10W	J
R1759	NRSA02J-472X	MG R	4.7kΩ 1/10W	J
R1760	NRSA02J-103X	MG R	10kΩ 1/10W	J
R1762-63	NRSA02J-103X	MG R	10kΩ 1/10W	J

AV-32WFT1EKS

△	Symbol No.	Part No.	Part Name	Description
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**RESISTOR**

R1764-66	NRSA02J-221X	MG R	22Ω 1/10W J
R1767	NRSA02J-103X	MG R	10kΩ 1/10W J
R1770	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R1771-73	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1774-75	NRSA02J-393X	MG R	39kΩ 1/10W J
R1777-79	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1780	NRSA02J-102X	MG R	1kΩ 1/10W J
R1784	NRSA02J-473X	MG R	47kΩ 1/10W J
R1785	NRSA02J-223X	MG R	22kΩ 1/10W J
R1786	NRSA02J-473X	MG R	47kΩ 1/10W J
R1787	NRSA02J-332X	MG R	3.3kΩ 1/10W J
R1788	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R1789	NRSA02J-473X	MG R	47kΩ 1/10W J
R1790	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R1801-02	NRSA02J-103X	MG R	10kΩ 1/10W J
R1804	NRSA02J-473X	MG R	47kΩ 1/10W J
R1805	NRSA02J-333X	MG R	33kΩ 1/10W J
R1834	NRSA02J-473X	MG R	47kΩ 1/10W J
R1835	NRSA02J-152X	MG R	1.5kΩ 1/10W J
R1837	NRSA02J-102X	MG R	1kΩ 1/10W J
R1838	NRSA02J-393X	MG R	39kΩ 1/10W J
R1839	NRSA02J-332X	MG R	3.3kΩ 1/10W J
R1840	NRSA02J-152X	MG R	1.5kΩ 1/10W J
R1841	NRSA02J-331X	MG R	33Ω 1/10W J
R1842	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1843	NRSA02J-332X	MG R	3.3kΩ 1/10W J
R1844	NRSA02J-392X	MG R	3.9kΩ 1/10W J
R1845	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R1846	NRSA02J-103X	MG R	10kΩ 1/10W J
R1847-48	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1849	NRSA02J-823X	MG R	82kΩ 1/10W J
R1850-56	NRSA02J-102X	MG R	1kΩ 1/10W J
R1857	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1858	NRSA02J-223X	MG R	22kΩ 1/10W J
R1859	NRSA02J-823X	MG R	82kΩ 1/10W J
R1871	NRSA02J-102X	MG R	1kΩ 1/10W J
R1872-73	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1874	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R1875	NRSA02J-104X	MG R	100kΩ 1/10W J
R1876	NRSA02J-102X	MG R	1kΩ 1/10W J
R1877	NRSA02J-393X	MG R	39kΩ 1/10W J
R1878-80	NRSA02J-152X	MG R	1.5kΩ 1/10W J
R1881-82	NRSA02J-331X	MG R	33Ω 1/10W J
R1883	NRSA02J-102X	MG R	1kΩ 1/10W J
R1884	NRSA02J-331X	MG R	33Ω 1/10W J

△	Symbol No.	Part No.	Part Name	Description
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**CAPACITOR**

C1313	QETN1CM-107Z	E CAP.	100μF 16V M
C1314	NCB21HK-103X	C CAP.	0.01μF 50V K
C1315	QETN1HM-106Z	E CAP.	10μF 50V M
C1319	QETN1CM-107Z	E CAP.	100μF 16V M
C1320	NCB21HK-103X	C CAP.	0.01μF 50V K
C1321-23	NCB21EK-104X	C CAP.	0.1μF 25V K
C1324-26	QETN1HM-105Z	E CAP.	1μF 50V M
C1327	QETN1HM-475Z	E CAP.	4.7μF 50V M
C1328	QETN1CM-107Z	E CAP.	100μF 16V M
C1329	QETN1EM-476Z	E CAP.	47μF 25V M
C1331	QETN1HM-105Z	E CAP.	1μF 50V M
C1332	NCB21HK-103X	C CAP.	0.01μF 50V K
C1333	NCB21EK-104X	C CAP.	0.1μF 25V K
C1401	QETN1HM-105Z	E CAP.	1μF 50V M
C1403-05	NCB21HK-103X	C CAP.	0.01μF 50V K
C1406	QFV71HJ-184Z	MF CAP.	0.18μF 50V J
C1407	QFV71HJ-564Z	MF CAP.	0.56μF 50V J
C1408	NCB21HK-153X	C CAP.	0.015μF 50V K
C1501	QETN1CM-107Z	E CAP.	100μF 16V M
C1502-04	NCB21HK-103X	C CAP.	0.01μF 50V K
C1505	NCB21HK-822X	C CAP.	8200pF 50V K
C1506	QETN1HM-105Z	E CAP.	1μF 50V M
C1507	NCB21HK-103X	C CAP.	0.01μF 50V K
C1508	QETN1CM-108Z	E CAP.	1000μF 16V M
C1509	NCB21HK-823X	CHIP CAP.	0.082μF 50V K
C1510-11	NCB21HK-103X	C CAP.	0.01μF 50V K
C1512	QTMN1HM-105Z	E CAP.	0.1μF 50 M
C1513	QETN1CM-228Z	E CAP.	2200μF 16V M
C1514	NCB21HK-103X	C CAP.	0.01μF 50V K
C1515	QFV71HJ-394Z	MF CAP.	0.39μF 50V J
C1516	NCB21HK-103X	C CAP.	0.01μF 50V K
C1551-52	NCB21EK-224X	CHIP CAP.	0.22μF 25V K
C1553	QETN1EM-476Z	E CAP.	47μF 25V M
C1554-55	NCB21EK-224X	CHIP CAP.	0.22μF 25V K
C1571	NCB21HK-103X	C CAP.	0.01μF 50V K
C1601-02	NCB21HK-103X	C CAP.	0.01μF 50V K
C1603-04	NCF21CZ-105X	C CAP.	1μF 16V Z
C1606	NRSA02J-9R0X	MG R	0.0Ω 1/10W J
C1622-23	QETN1CM-227Z	E CAP.	220μF 16V M
C1625	QETN1HM-105Z	E CAP.	1μF 50V M
C1635	QETN1HM-105Z	E CAP.	1μF 50V M
C1636	QETN1HM-107Z	E CAP.	100μF 50V M
C1637	QETN1HM-106Z	E CAP.	10μF 50V M
C1638-39	NCF21HZ-224X	C CAP.	0.22μF 50V Z
C1653	NCF21HZ-224X	C CAP.	0.22μF 50V Z
C1655	NCF21HZ-224X	C CAP.	0.22μF 50V Z
C1656	QETN1HM-228	E CAP.	2200μF 50V M
C1661-62	QETN1VM-108	E CAP.	1000μF 35V M
C1668	NCB21EK-104X	C CAP.	0.1μF 25V K
C1671	QETN1CM-107Z	E CAP.	100μF 16V M
C1672	NCB21EK-104X	C CAP.	0.1μF 25V K
C1701	NCF21CZ-105X	C CAP.	1μF 16V Z
C1703	QETN1EM-476Z	E CAP.	47μF 25V M
C1704	NCB21EK-104X	C CAP.	0.1μF 25V K
C1705	QETN1AM-107Z	E CAP.	100μF 10V M
C1706	NCB21EK-104X	C CAP.	0.1μF 25V K
C1707	QETN1HM-474Z	E CAP.	0.47μF 50V M
C1708	QETN1EM-476Z	E CAP.	47μF 25V M
C1709-10	NDC21HJ-9R0X	C CAP.	9.0pF 50V J
C1711	NCB21EK-104X	C CAP.	0.1μF 25V K
C1712	NDC21HJ-151X	C CAP.	150pF 50V J
C1713	QETN1HM-105Z	E CAP.	1μF 50V M
C1714	NDC21HJ-561X	C CAP.	560pF 50V J
C1716-17	QETN1HM-105Z	E CAP.	1μF 50V M
C1718	NCB21HK-333X	C CAP.	0.033μF 50V K
C1725	NCB21HK-102X	C CAP.	1000pF 50V K
C1726	NDC21HJ-391X	C CAP.	390pF 50V J
C1831-32	QETN1EM-476Z	E CAP.	47μF 25V M
C1833	NDC21HJ-221X	C CAP.	220pF 50V J
C1834	NCB21EK-104X	C CAP.	0.1μF 25V K

△	Symbol No.	Part No.	Part Name	Description		
<b>CAPACITOR</b>						
C1835		NDC21HJ-220X	C CAP.	22pF	50V	J
C1836-38		NCB21EK-104X	C CAP.	0.1μF	25V	K
C1839		QETN1HH-106Z	E CAP.	10μF	50V	M
C1871		NCB21EK-104X	C CAP.	0.1μF	25V	K
C1872		NCB21HJ-223X	C CAP.	0.022μF	50V	K
C1873		NDC21HJ-221X	C CAP.	220pF	50V	J
C1874-75		NDC21HJ-150X	C CAP.	15pF	50V	J
C1876		NCB21HK-102X	C CAP.	1000pF	50V	K
C1877		NCB21EK-104X	C CAP.	0.1μF	25V	K
C1878		NCB21HK-102X	C CAP.	1000pF	50V	K
C1879		NDC21HJ-221X	C CAP.	220pF	50V	J
C1880		QETN1AM-477Z	E CAP.	470μF	10V	M
C1881		NCB21EK-104X	C CAP.	0.1μF	25V	K
C1882		QETN1EM-476Z	E CAP.	47μF	25V	M
C1883		NCB21HK-103X	C CAP.	0.01μF	50V	K
C1885		NCB21EK-104X	C CAP.	0.1μF	25V	K
C1886		NCB21HK-103X	C CAP.	0.01μF	50V	K
C1887-89		QETN1HH-106Z	E CAP.	10μF	50V	M

△	COIL			
L1001	QQL01BK-5R6Z	PEAKING COIL	5.6μH	
L1002	QQL01BK-270Z	PEAKING COIL	27μH	
L1301-02	QQL01BK-4R7Z	PEAKING COIL	4.7μH	
L1305	QL244K-4R7Z	PEAKING COIL	4.7μH	
L1501	QL244J-151Z	PEAKING COIL	150μH	
L1701	QQL01BK-4R7Z	PEAKING COIL	4.7μH	
L1702	QQL01BK-3R9Z	PEAKING COIL	3.9μH	
L1871	QQL01BK-4R7Z	PEAKING COIL	4.7μH	

△	DIODE			
D1301	MA3051/M/-X	ZENER DIODE		
D1302-04	MA111-X	SI. DIODE		
D1503	RB100A-T2	SI. DIODE		
D1602	MA111-X	SI. DIODE		
D1608-10	MA111-X	SI. DIODE		
D1612-13	MA111-X	SI. DIODE		
D1617-18	MA330/L/-X	ZENER DIODE		
D1624-25	MA111-X	SI. DIODE		
D1701	MA3068/M/-X	ZENER DIODE		
D1702	MA111-X	SI. DIODE		
D1704	MA111-X	SI. DIODE		
D1705	MA3036-X	ZENER DIODE		
D1706-08	MA111-X	SI. DIODE		
D1710	MA111-X	SI. DIODE		
D1831	MA3051/M/-X	ZENER DIODE		

△	TRANSISTOR			
Q1301-02	2SA1037AK/QR/-X	SI. TRANSISTOR		
Q1309	2SC2412K/QR/-X	SI. TRANSISTOR		
Q1310	2SA1037AK/QR/-X	SI. TRANSISTOR		
Q1311	DTC124EKA-X	DIGI. TRANSISTOR		
Q1312	2SA1037AK/QR/-X	SI. TRANSISTOR		
Q1401	DTC124EKA-X	DIGI. TRANSISTOR		
Q1402	2SC2412K/QR/-X	SI. TRANSISTOR		
Q1601	2SA1037AK/QR/-X	SI. TRANSISTOR		
Q1602-03	DTC323TK-X	DIGI. TRANSISTOR		
Q1604	2SA1037AK/QR/-X	SI. TRANSISTOR		
Q1609	2SA1037AK/QR/-X	SI. TRANSISTOR		
Q1610	DTC323TK-X	DIGI. TRANSISTOR		
Q1612	DTC323TK-X	DIGI. TRANSISTOR		
Q1613	2SA1037AK/QR/-X	SI. TRANSISTOR		
Q1614	2SC2412K/QR/-X	SI. TRANSISTOR		
Q1701-04	2SC2412K/QR/-X	SI. TRANSISTOR		
Q1705-06	2SA1037AK/QR/-X	SI. TRANSISTOR		
Q1707	2SC2412K/QR/-X	SI. TRANSISTOR		
Q1708	2SA1037AK/QR/-X	SI. TRANSISTOR		
Q1709-10	2SC2412K/QR/-X	SI. TRANSISTOR		

△	Symbol No.	Part No.	Part Name	Description
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**TRANSISTOR**

Q1832-33	2SC2412K/QR/-X	SI. TRANSISTOR
Q1834	2SA1037AK/QR/-X	SI. TRANSISTOR
Q1835-37	2SC2412K/QR/-X	SI. TRANSISTOR
Q1871	2SA1037AK/QR/-X	SI. TRANSISTOR
Q1872	2SC2412K/QR/-X	SI. TRANSISTOR

**IC**

IC1301	TB1227CN	I.C.
IC1302	TC4053BP/N/	I.C.(DIGI-MOS)
IC1501	AN5441SA-W	I.C.
IC1551	LA6515	I.C.(MONO-ANA)
IC1601	TA8246AH	I.C.(HYBRID)
IC1607	TA78L005AP-T	I.C.(H)
IC1701	M37280MK-104SP	I.C.
IC1702	AT24C16-32WFT1	I.C.
		(SERVICE)
IC1703	L78LR05E-MA	I.C.(MONO-ANA)
IC1704	JLC1562BF-X	I.C.(DIGI-MOS)
IC1831	JCC5035	I.C.(DIGI-MOS)
IC1832	MN1382/Q/-X	I.C.(MONO-ANA)
IC1871	ET417	I.C.(M)
IC1872	ET206	I.C.(N)

**OTHERS**

CH1001	QGF1216C1-25	FFC CONNECTOR
J1001	ONN0296-001	PIN JACK
K1001-02	CE41433-001Z	BEADS CORE
K1004	CE41433-001Z	BEADS CORE
K1307	CE41433-001Z	BEADS CORE
K1601-02	CE42681-001Y	BEADS CORE
K1872	CE41433-001Z	BEADS CORE
LC1301	CE42142-222Z	EHI FILTER

TU1001	QAU0189-001	TUNER
W1229	NRSA02J-0R0X	MG R
W1232-33	NRSA02J-0R0X	MG R
W1235-42	NRSA02J-0R0X	MG R
W1245	NRSA02J-0R0X	MG R
X1301	QAX0305-001Z	CRYSTAL
X1701	CST8.00MTW	CER. RESONATOR
X1831	QAX0624-001Z	C RESONATOR
Y1671	CE41257-001Z	CRYSTAL
Y1611-13	NRSA02J-0R0X	MG R
Y1618-19	NRSA02J-0R0X	MG R
Y1871	NRSA02J-0R0X	MG R

**POWER & DEF. PW BOARD ASS'Y (SJK-2501A-U2)**

Refer to PARTS LIST in page 63 for this P.W. board.

**CRT SOCKET PW BOARD ASS'Y (SJK-3501A-U2)**

Refer to PARTS LIST in page 65 for this P.W. board.

**FRONT CONTROL PW BOARD ASS'Y (SJK-8501A-U2)**

Refer to PARTS LIST in page 66 for this P.W. board.

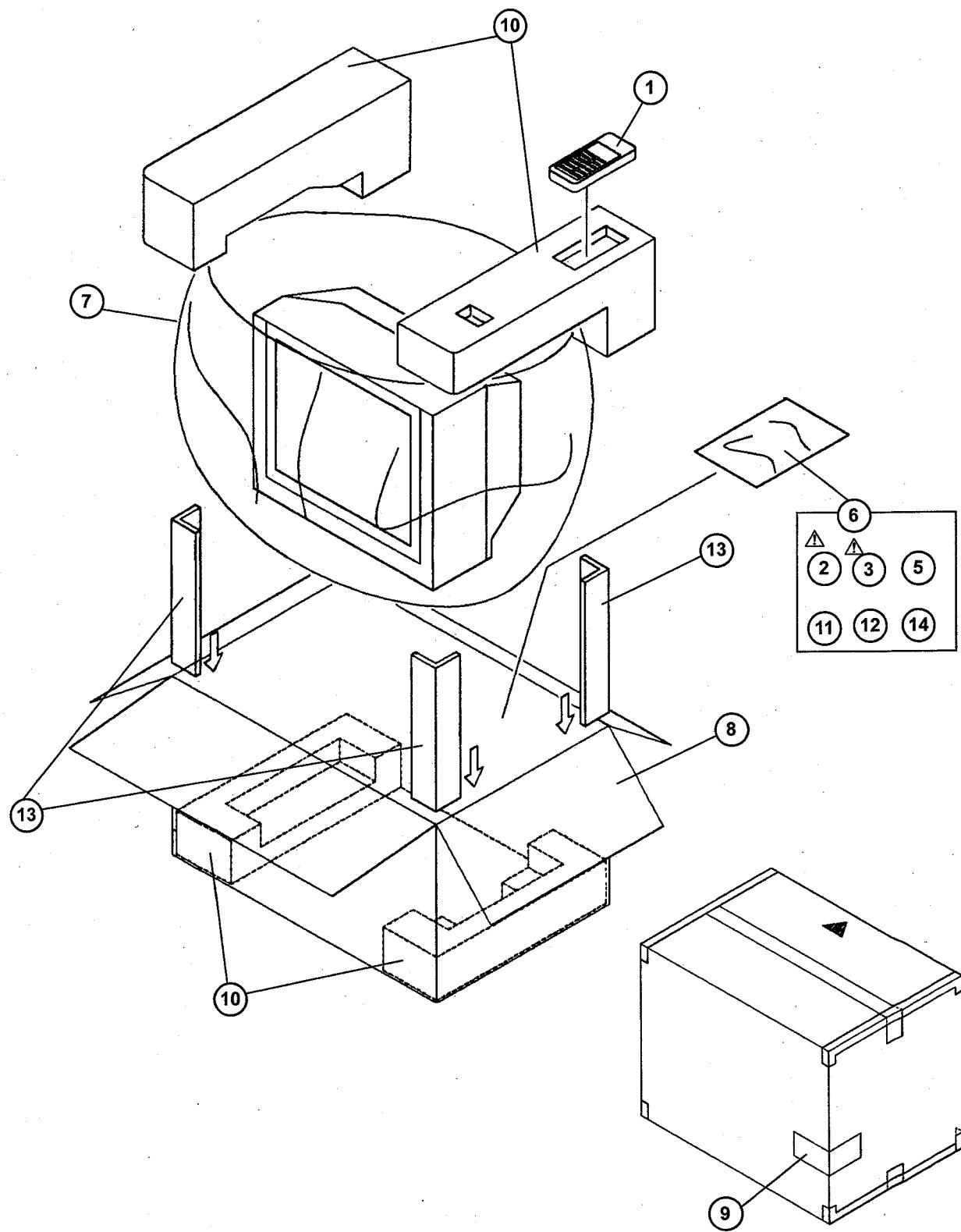
**AV SEL. PW BOARD AS'Y (SJK0S901A-U2)**

Refer to PARTS LIST in page 54 for this P.W. board.

AV-32WFT1EPG  
AV-32WFT1EPS  
AV-32WFT1EKS

## AV-32WFT1EPG / AV-32WFT1EPS / AV-32WFT1EKS

### PACKING



# AV-28WFT1EPG/EP/EIS

AV-28WFT1EPG/EP/EIS

AV-28WFT1EKS/EK

AV-32WFT1EPG/EP

AV-32WFT1EKS

# AV-28WFT1EKS/EK

# AV-32WFT1EPG/EP

# AV-32WFT1EKS STANDARD CIRCUIT DIAGRAM

## ■ NOTE ON USING CIRCUIT DIAGRAMS

### 1. SAFETY

The components identified by the  $\Delta$  symbol and shading are critical for safety. For continued safety replace safety critical components only with manufacturers recommended parts.

### 2. SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1) Input signal :PAL Colour bar signal  
(2) Setting positions of each knob/button and variable resistor :Original setting position when shipped  
(3) Internal resistance of tester :DC 20k $\Omega$ /V  
(4) Oscilloscope sweeping time :H  $\Rightarrow$  20 $\mu$ s/div  
:V  $\Rightarrow$  5mS/div  
:Others  $\Rightarrow$  Sweeping time is specified  
(5) Voltage values :All DC voltage values  
\* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

### 3. INDICATION OF PARTS SYMBOL [EXAMPLE]

● In the PW board :R1209→R209

### 4. INDICATIONS ON THE CIRCUIT DIAGRAM

#### (1) Resistors

##### ● Resistance value

No unit :[ $\Omega$ ]  
K :[K $\Omega$ ]  
M :[M $\Omega$ ]

##### ● Rated allowable power

No indication :1/10[W]  
Others :As specified

##### ● Type

No indication :Carbon resistor  
OMR :Oxide metal film resistor  
MFR :Metal film resistor  
MPR :Metal plate resistor  
UNFR :Uninflammable resistor  
FR :Fusible resistor

\* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

#### (2) Capacitors

##### ● Capacitance value

1 or higher :[pF]  
less than 1 :[ $\mu$ F]

##### ● Withstand voltage

No indication :DC50[V]  
AC indicated :AC withstand voltage [V]  
Others :DC withstand voltage [V]

\* Electrolytic Capacitors

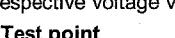
47/50[Example]:Capacitance value [ $\mu$ F]/withstand voltage[V]

AV-28WFT1EKS/EK

AV-32WFT1EPG/EP

AV-32WFT1EKS

● Type  
No indication :Ceramic capacitor  
MY :Mylar capacitor  
MM :Metalized mylar capacitor  
PP :Polypropylene capacitor  
MPP :Metalized polypropylene capacitor  
MF :Metalized film capacitor  
TF :Thin film capacitor  
BP :Bipolar electrolytic capacitor  
TAN :Tantalum capacitor  
(3) Coils  
No unit :[ $\mu$ H]  
Others :As specified

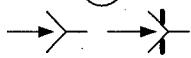
(4) Power Supply  
 :B1  
 :12V(B2)  
 :9V  
 :5V

\* Respective voltage values are indicated

(5) Test point

 :Test point  
 :Only test point display

(6) Connecting method

 :Connector  
 :Wrapping or soldering  
 :Receptacle

(7) Ground symbol

 :LIVE side ground  
 :ISOLATED(NEUTRAL) side ground  
 :EARTH ground  
 :DIGITAL ground

### 5. NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (↓) side GND. Therefore, care must be taken for the following points.

(1) Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2) Do not short between the LIVE side GND and the ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◇ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

# CONTENTS

**SEMICONDUCTOR SHAPES** ..... 2-2

**BLOCK DIAGRAM** ..... 2-3

## CIRCUIT DIAGRAMS

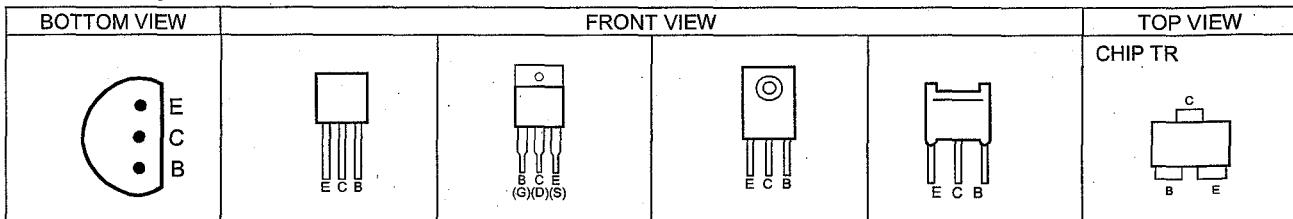
<b>MAIN PWB CIRCUIT DIAGRAM</b> .....	2-5
<b>POWER &amp; DEF PWB CIRCUIT DIAGRAM</b> .....	2-9
<b>AV SEL. PWB CIRCUIT DIAGRAM</b> .....	2-11
<b>FRONT CONTROL PWB CIRCUIT DIAGRAM [AV-28WFT1EPG / EPS / EIS / EKS / EK]</b> .....	2-13
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<b>CRT SOCKET PWB CIRCUIT DIAGRAM</b> .....	2-17

## PATTERN DIAGRAMS

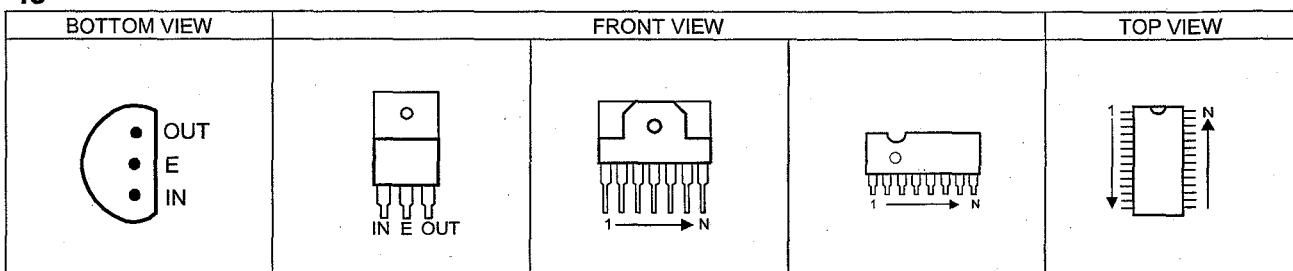
<b>MAIN PWB PATTERN</b> .....	2-19
<b>POWER &amp; DEF PWB PATTERN</b> .....	2-21
<b>AV SEL. PWB PATTERN</b> .....	2-23
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<b>FRONT CONTROL PWB PATTERN [AV-28WFT1EPG / EPS / EIS / EKS / EK]</b> .....	2-27
<b>FRONT CONTROL PWB PATTERN [AV-32WFT1EPG / EPS / EKS]</b> .....	2-29

## SEMICONDUCTOR SHAPES

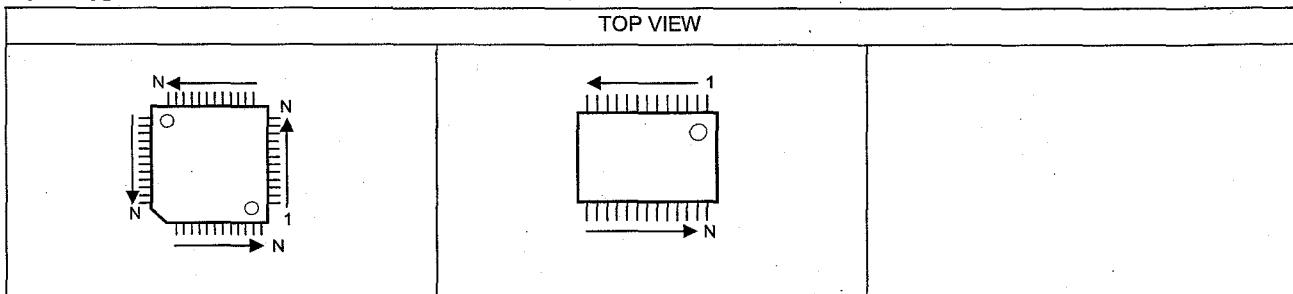
### TRANSISTOR



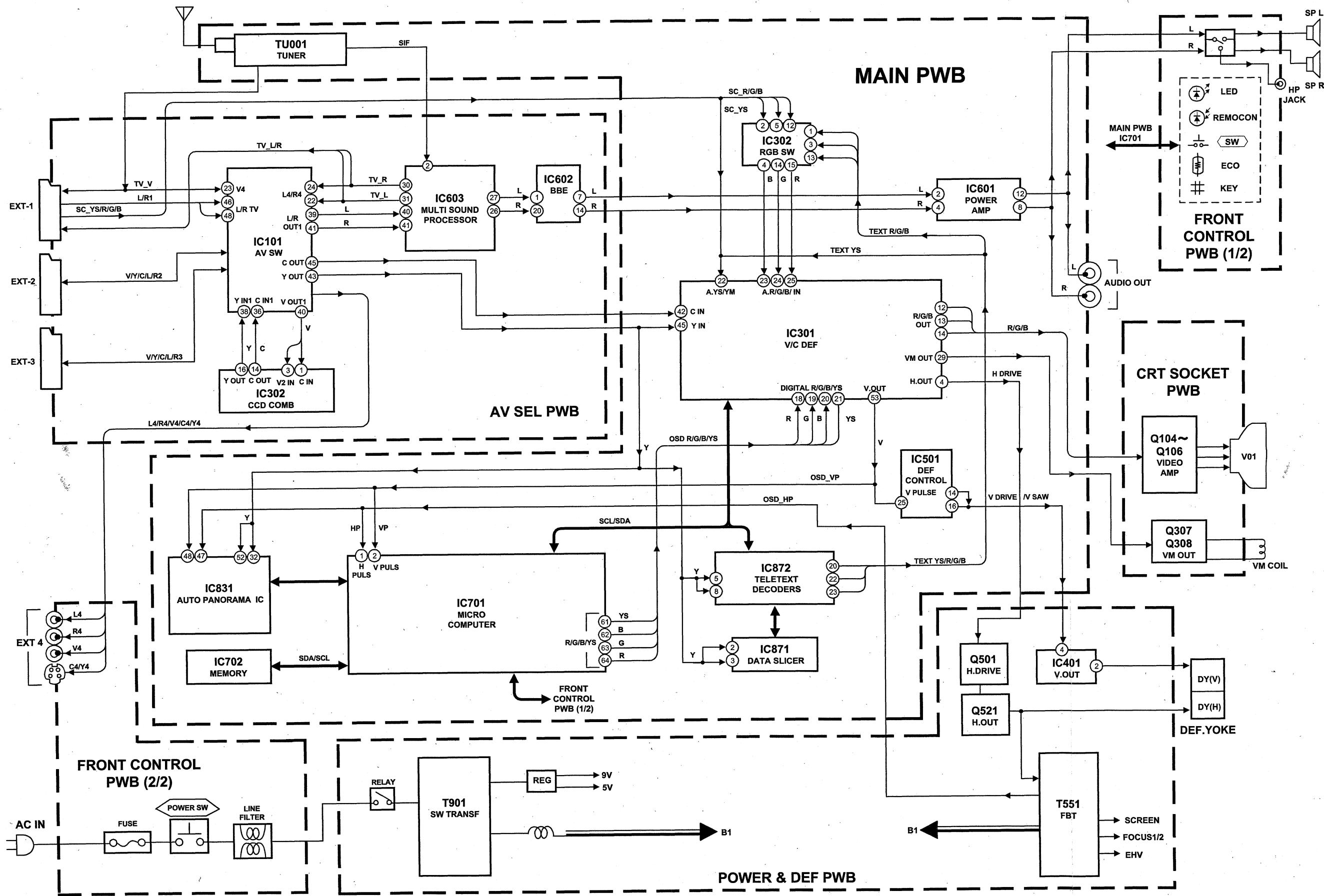
### IC



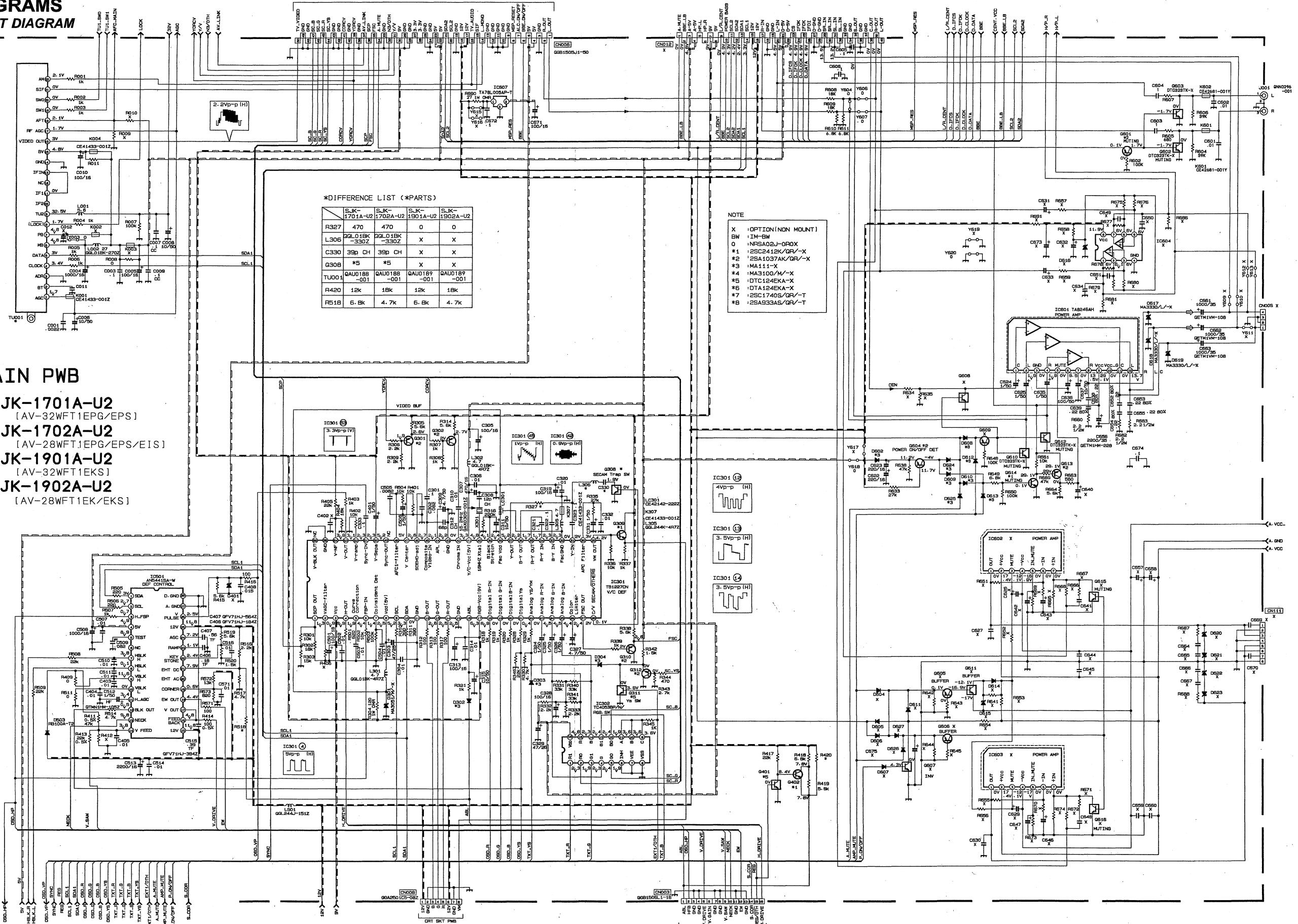
### CHIP IC



## BLOCK DIAGRAM



**CIRCUIT DIAGRAMS**  
**MAIN PWB CIRCUIT DIAGRAM**



## MAIN PWB

**SJK-1701A-U2**  
[AV-32WFT1EPG/EPS]

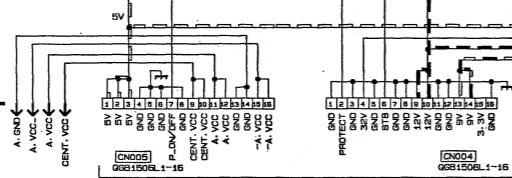
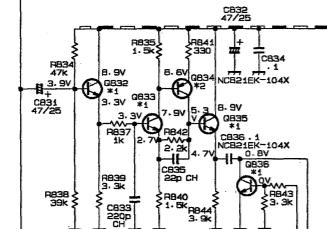
**SJK-1702A-U2**  
[AV-28WFT1EPG/EPS/EIS]

**SJK-1901A-U2**  
[AV-32WFT1EKS]

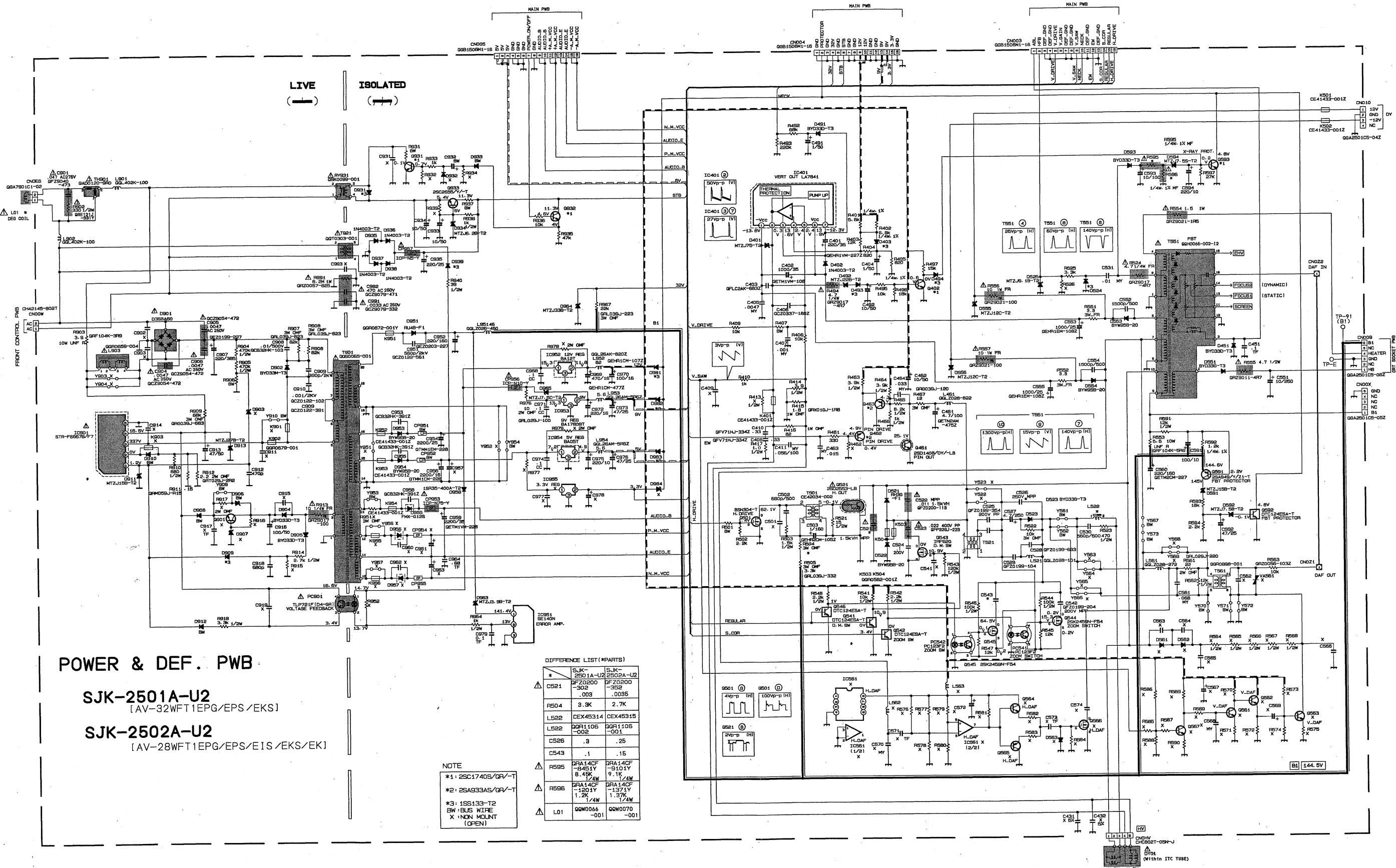
**SJK-1902A-U2**  
[AV-28WFT1EKS/EK]

**NOTE**

X : OPTION(NON MOUNT)  
BW : IM-BW  
O : IRS02J-0R0X  
\*1 : 2SC2412K/GR/-X  
\*2 : 2SA1037AK/GR/-X  
\*3 : MA111-X  
\*4 : MA3100/M/-X  
\*5 : DTC124EKA-X  
\*6 : DTA124EKA-X  
\*7 : 2SC1740S/GR/-T  
\*8 : 2SA933AS/GR/-T



## **POWER & DEF PWB CIRCUIT DIAGRAM**



## POWER & DEF. PWB

SJK-2501A-U2

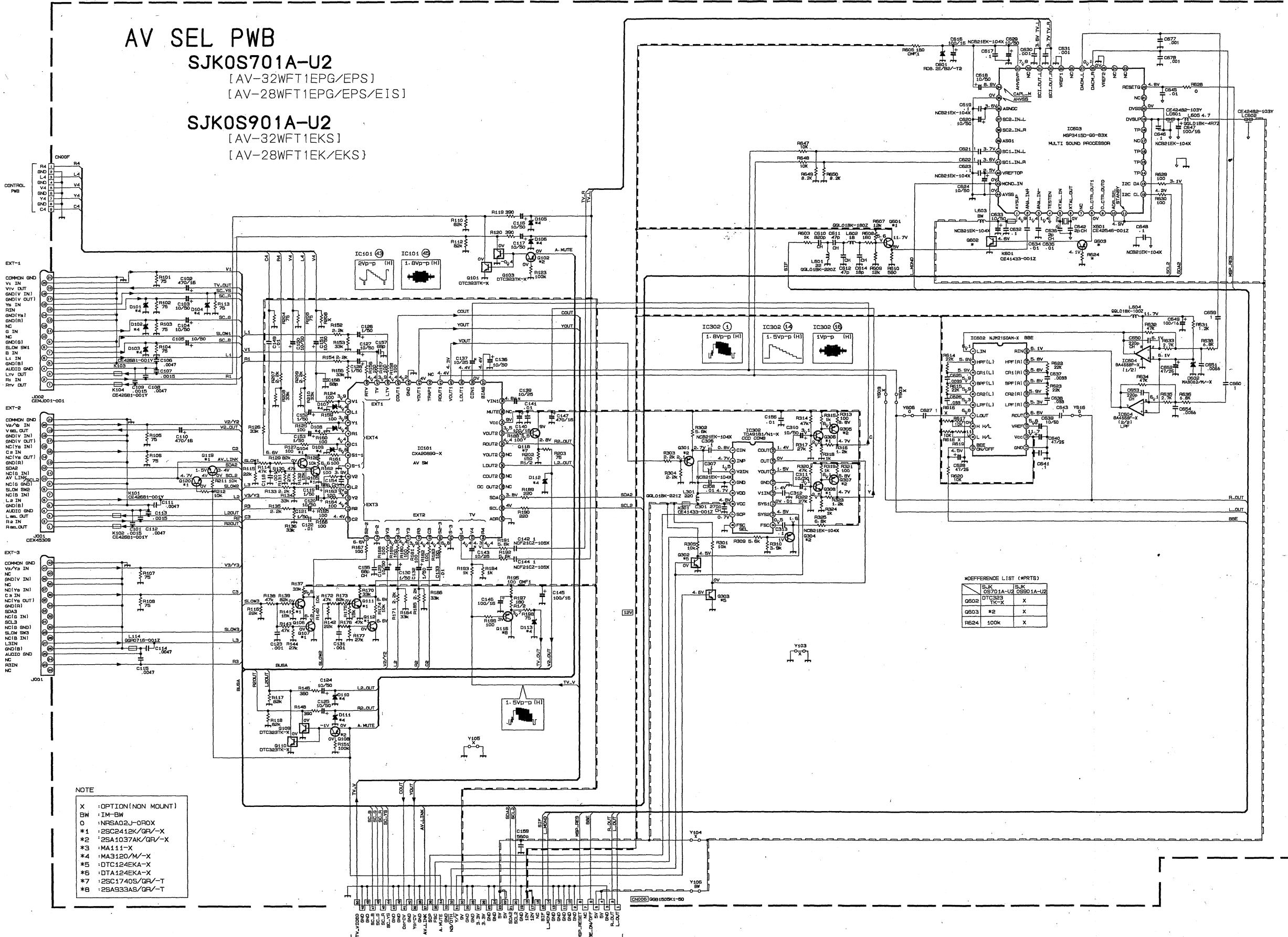
AV-32WFT1EPG/EPSS/EKS

SJK-2502A-U2

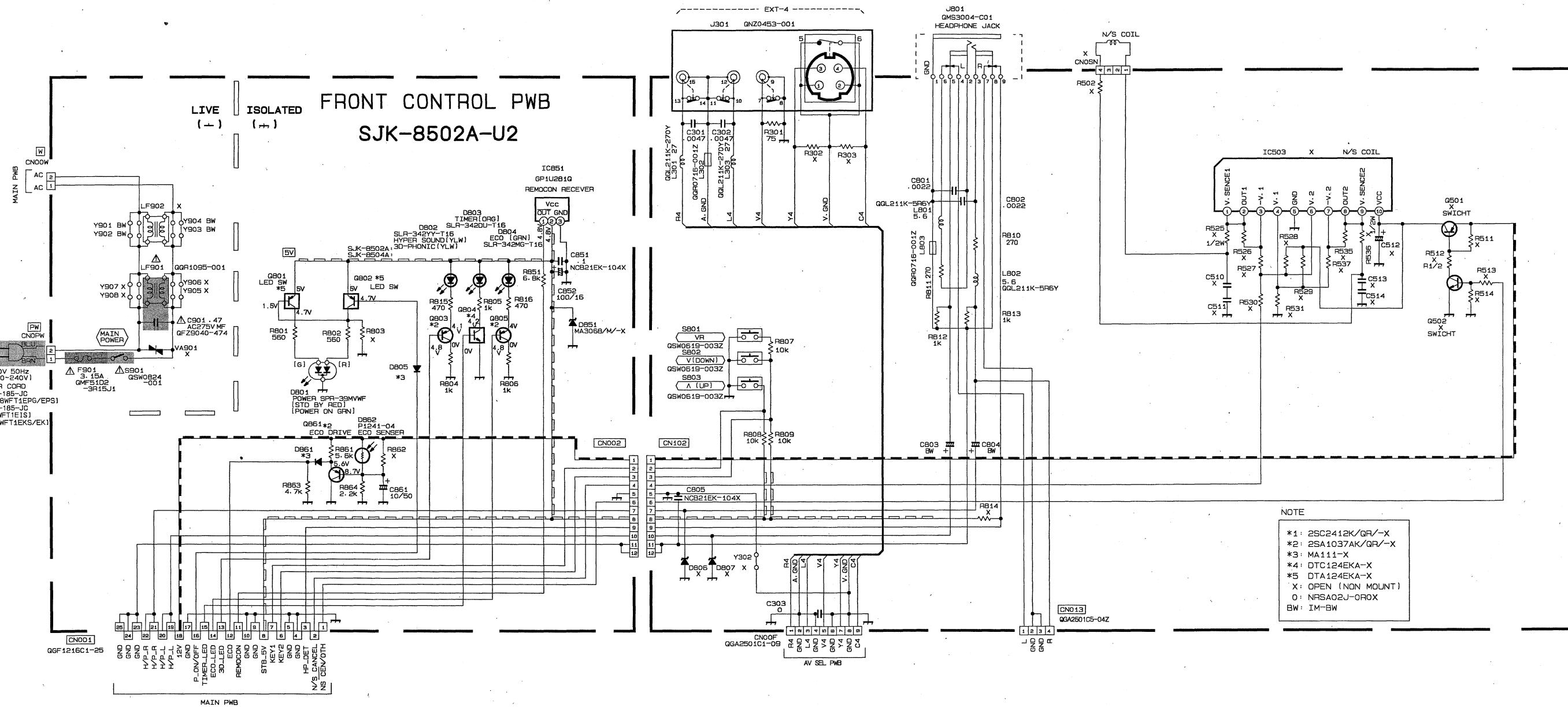
[AV-28WFT1EPG/EP5/EIS/EKS/EK]

\*1: 2SC1740S  
\*2: 2SA933AS  
\*3: 1SS133-  
BW:BUS WIRE  
X:NON MOUL  
(OPEN)

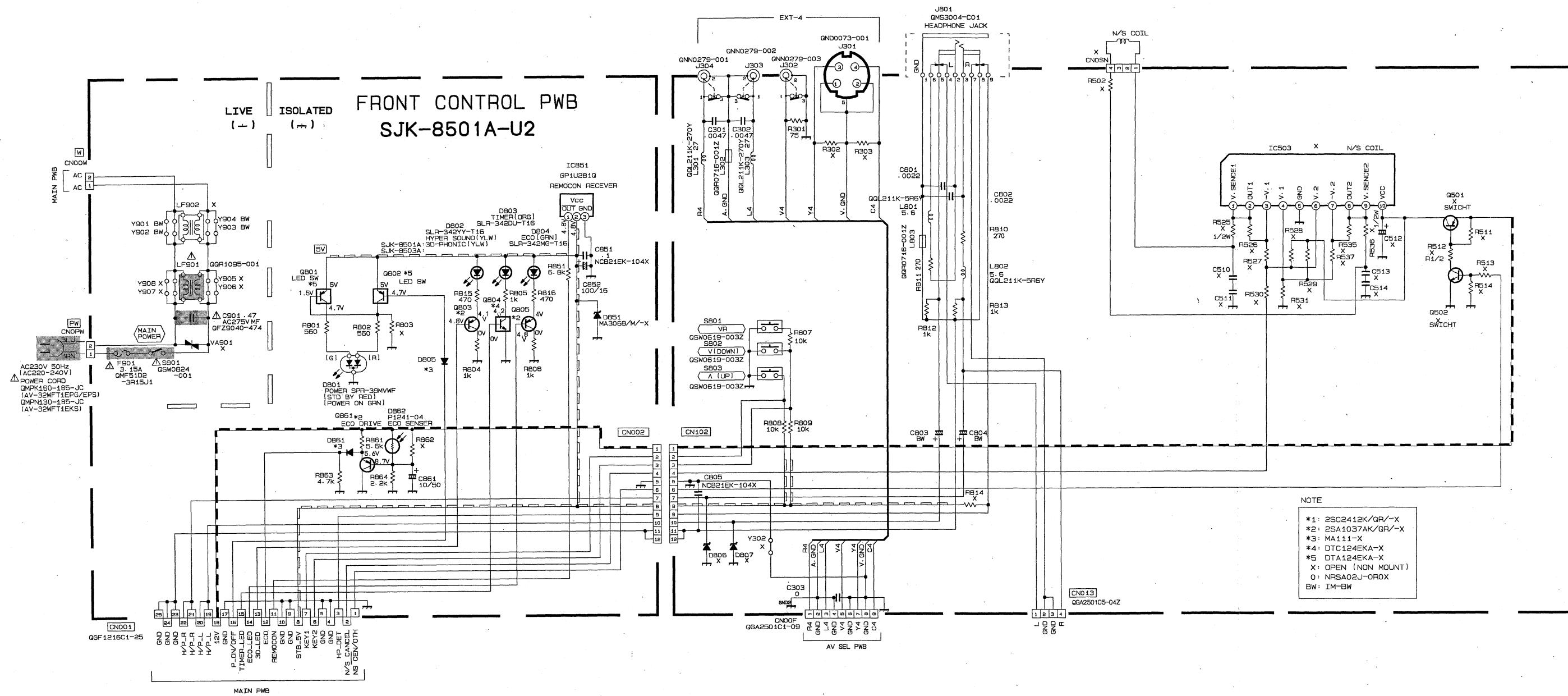
AV SEL. PWB CIRCUIT DIARAM



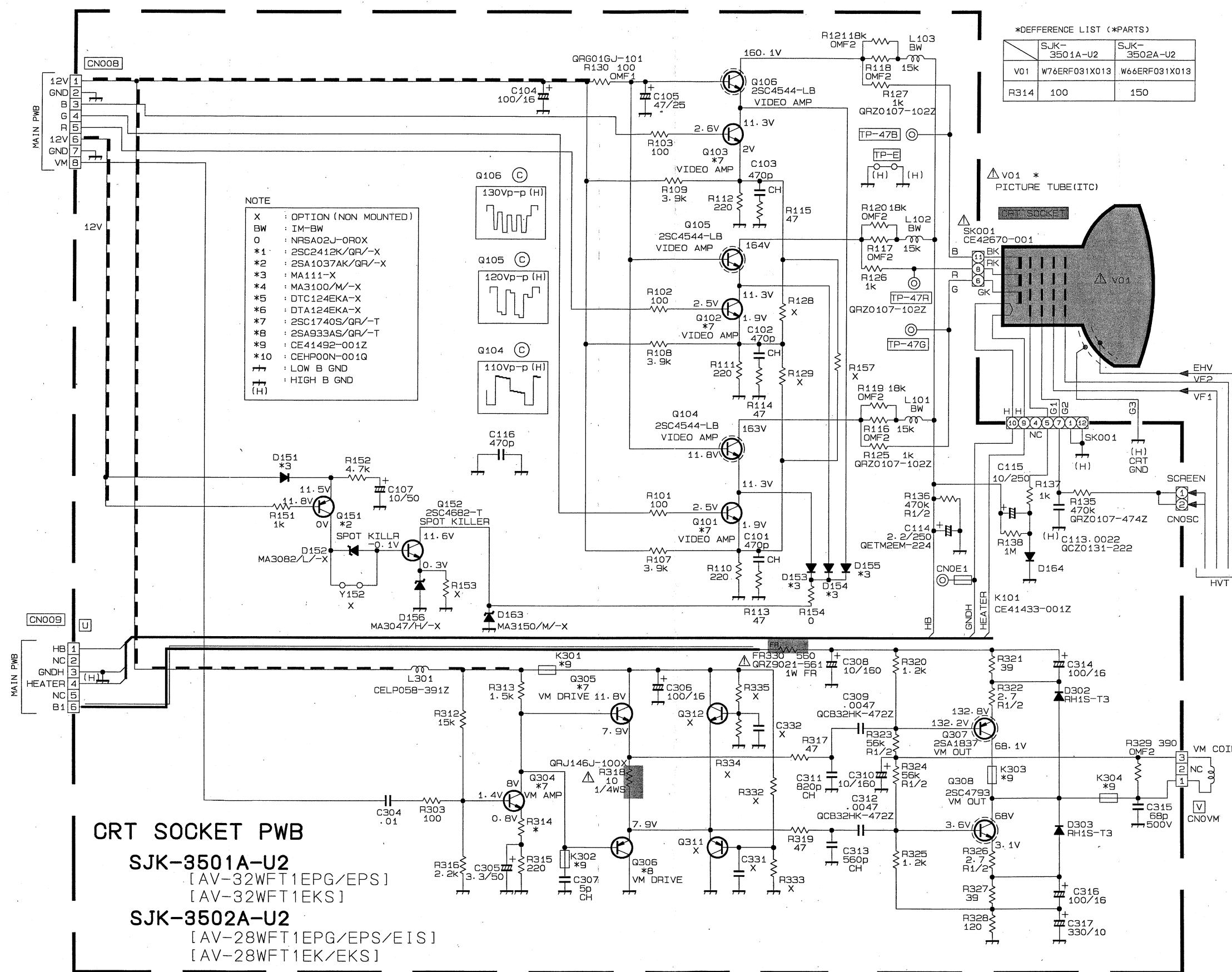
FRONT CONTROL PWB CIRCUIT DIAGRAM [AV-28WFT1EPG / EP / EIS / EKS / EK]



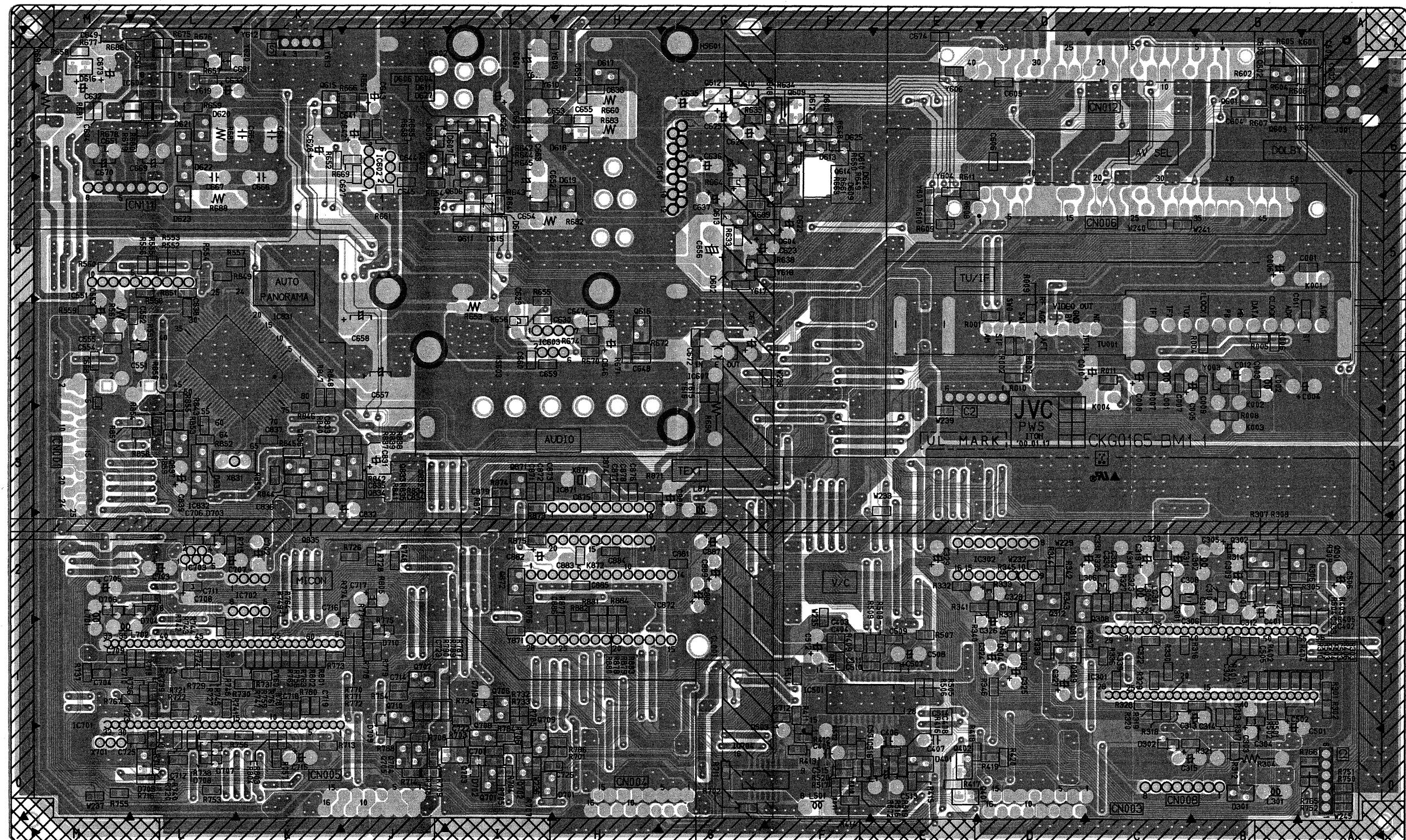
## FRONT CONTROL PWB CIRCUIT DIAGRAM [AV-32WFT1EPG / EPS / EKS]



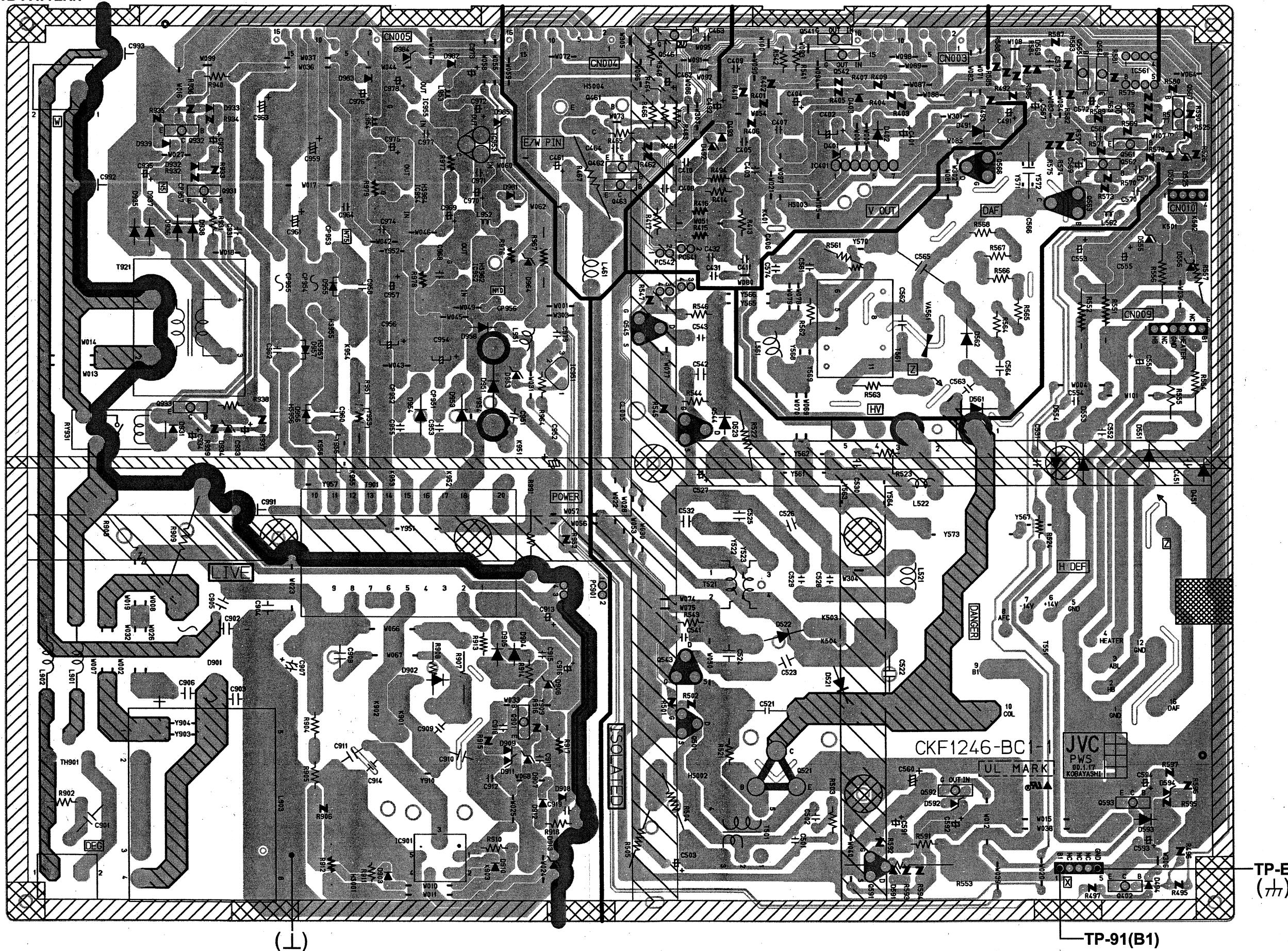
CRT SOCKET PWB CIRCUIT DIAGRAM



**PATTERN DIAGRAMS**  
**MAIN PWB PATTERN**



## **POWER & DEF PWB PATTERN**



No.51694

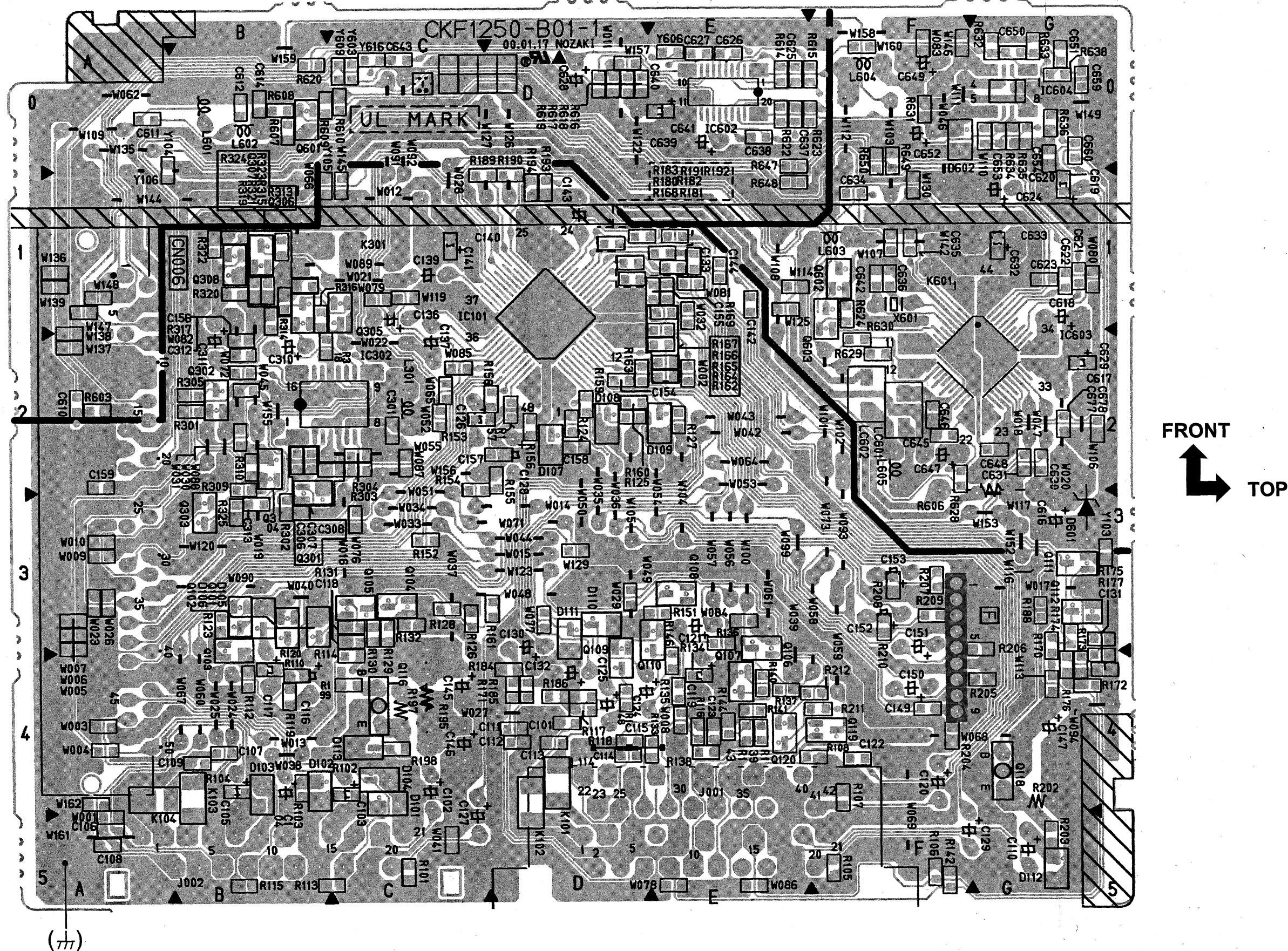
2-21

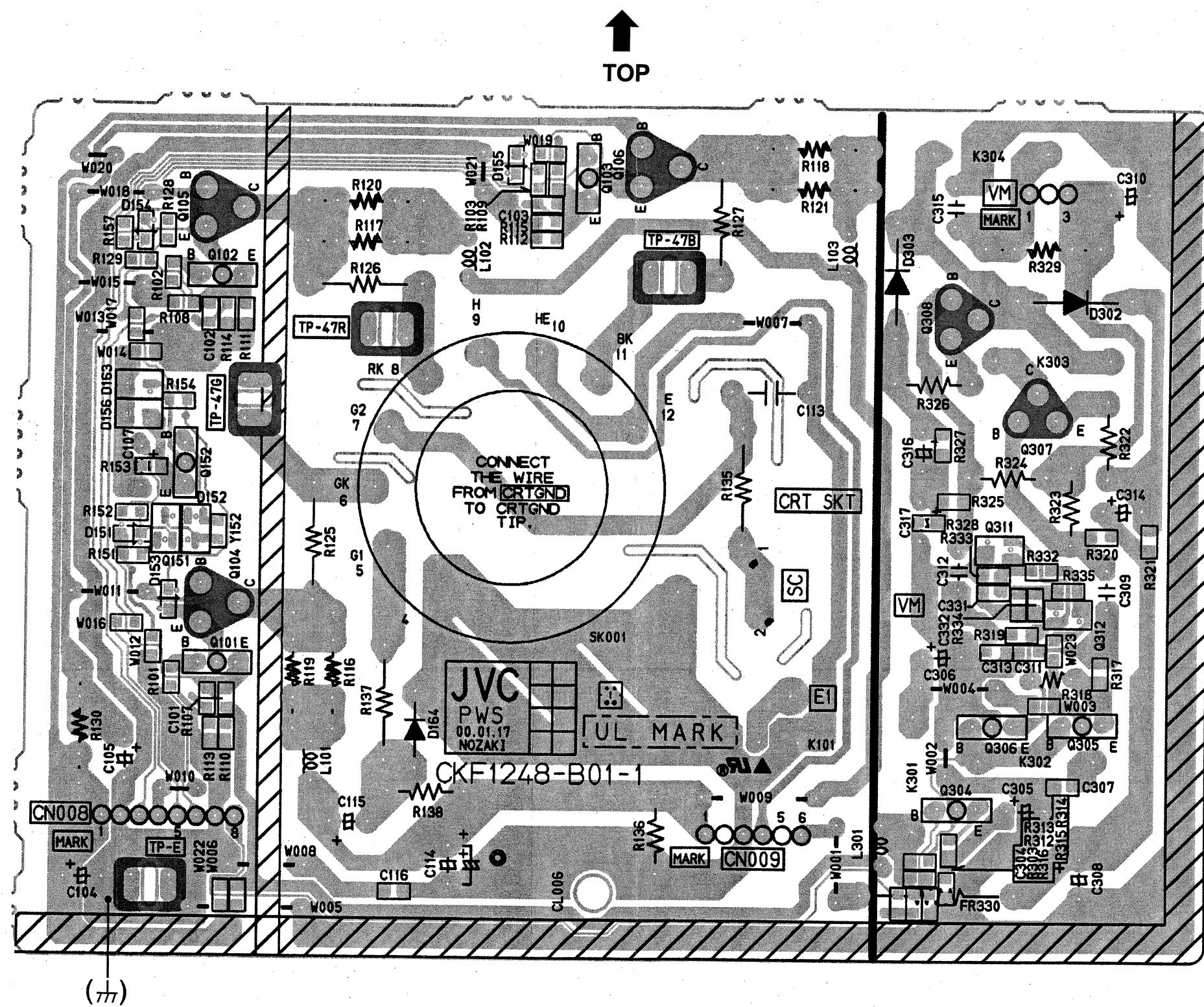
2-22

No.51694

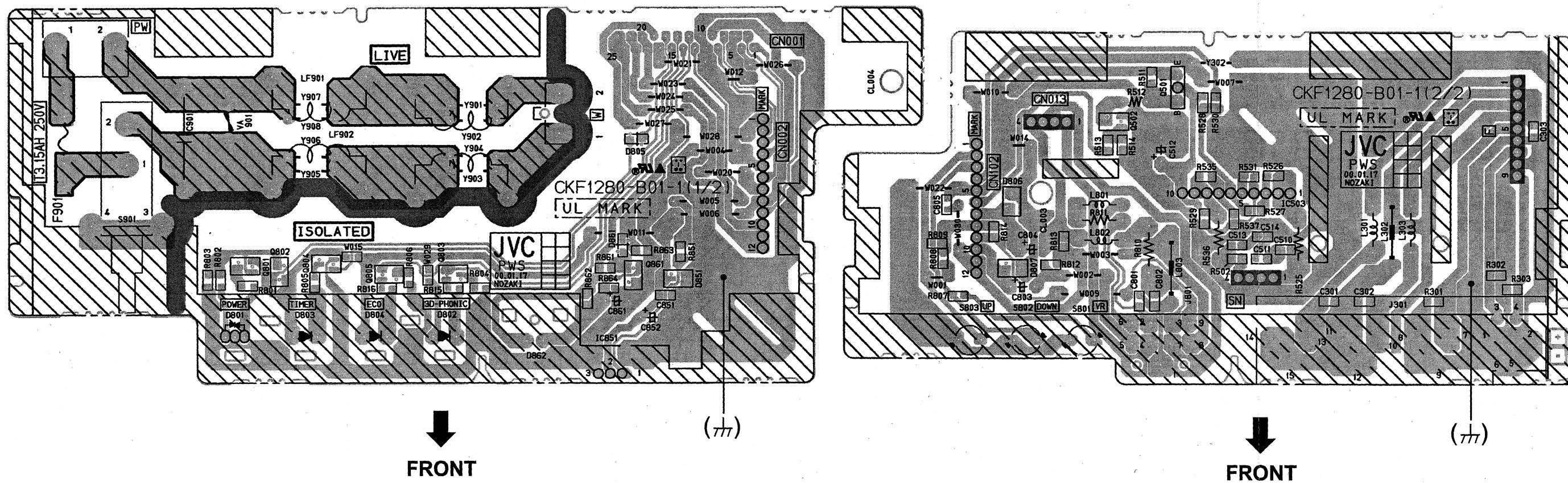
—TP-91(B1)

AV SEL. PWB PATTERN

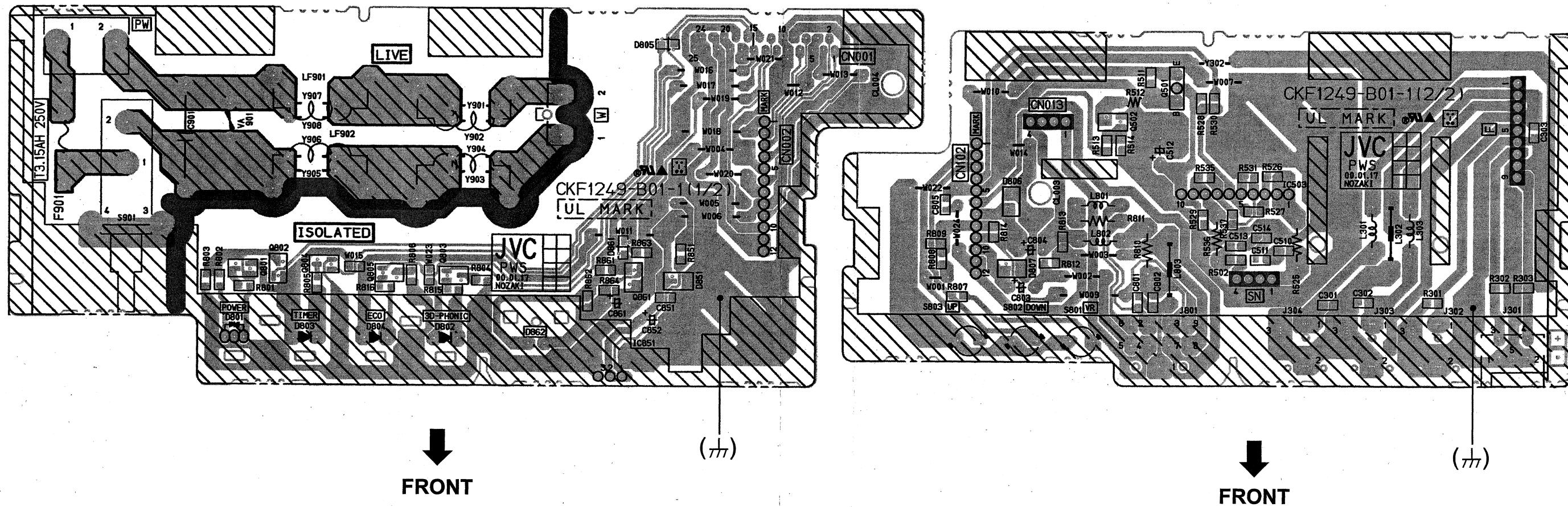




FRONT CONTROL PWB PATTERN [AV-28WFT1EPG / EPS / EIS / EKS / EK]



FRONT CONTROL PWB PATTERN [AV-32WFT1EPG / EPS / EKS]



# JVC

## SERVICE MANUAL

### COLOUR TELEVISION

**AV-28WFT1EKS / AV-32WFT1EKS  
 AV-28WFT1EPG / AV-32WFT1EPG  
 AV-28WFT1EPS / AV-32WFT1EPS  
 AV-28WFT1EIS**

<b>BASIC CHASSIS</b>
<b>JK</b>

#### Supplementary

Since some details of the AV-28WFR1EKS,EPG,EPS,EIS,EK / AV-32WFR1EKS,EPG,EPS service manual (No.51694 Feb. 2000) were changed, we are informing you of these changes and of the new descriptions.

#### 1. OUTLINE OF CHANGE

To improve CRT performance, CRT manufacturer has changed location of VM coil wire connector on the CRT neck.

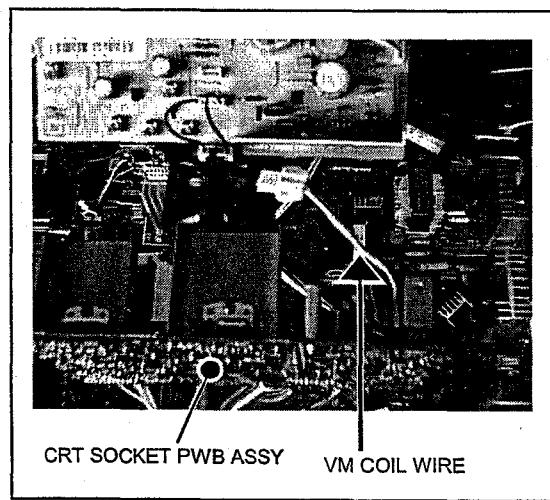
When changing CRT from old to new type, it is necessary to add extension cable CHHB03-100R-SA, between CRT SKT PCB and new VM coil connector.

When ordering replacement CRT, Please order CHHB03-100R-SA at same time.

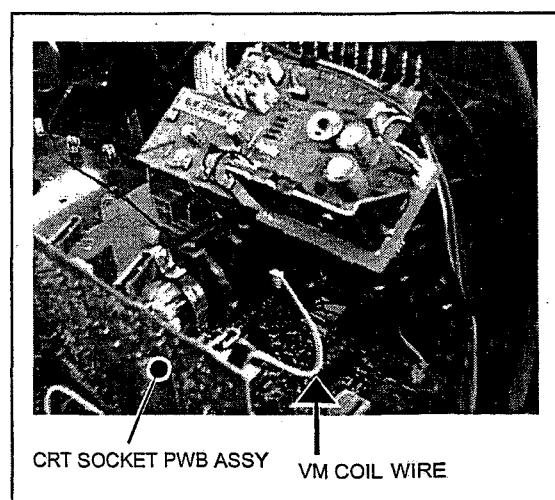
#### 2. HOW TO IDENTIFY MODEL (CRT : W66ERF031X013 [28inch] / W76ERF031X013 [32inch])

Old type: Has a short VM wire, coming from the CRT VM PCB/Coil Assy for connecting to CRT PCB VM coil wire.

New type: VM coil wire is connected directly into the right hand side of CRT neck.



[Fig.1]



[Fig.2]

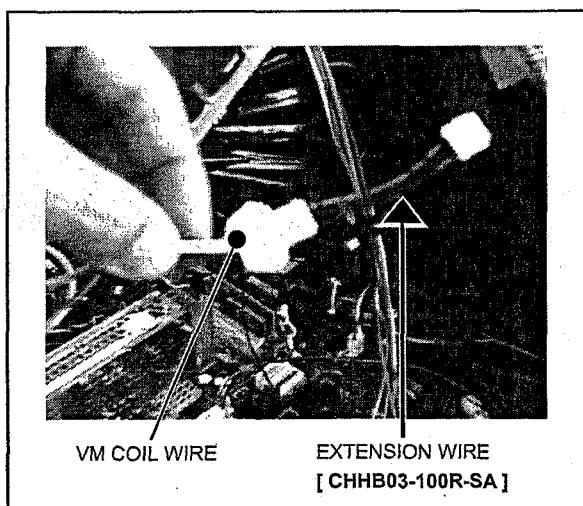
### 3. LIST OF NEW TYPE CRT USING LONGER VM COIL WIRE (No need to add additional extension wire)

All sets listed before the serial numbers below require additional extension wire.

Model name	Start serial number (New long VM wire)
AV-28WFT1EKS	105 * 6531 Onwards
AV-28WFT1EPG	115 * 0611 Onwards
AV-28WFT1EPS	105 * 3821 Onwards
AV-28WFT1EIS	135 * 0201 Onwards
AV-32WFT1EKS	145 * 2531 Onwards
AV-32WFT1EPG	155 * 1306 Onwards
AV-32WFT1EPS	155 * 2926 Onwards

### 4. METHOD FOR CHANGING, FROM OLD TO NEW CRT TYPE

- ① Order CHHB03-100R-SA, at the same time as CRT.
- ② Attach one end of CHHB03-100R-SA, to VM coil Wire. (See Fig 3)
- ③ Insert opposite end of CHHB03-100R-SA wire, into CRT's VM coil wire connection. (See Fig 2)



[Fig.3]

**JVC**

VICTOR COMPANY OF JAPAN, LIMITED  
HOME AV NETWORK BUSINESS UNIT 1106 Heta, Iwai-city, Ibaraki-prefecture, 306-0698, Japan

AV28WFT1EKSU #12 AV28WFT1EPGU #11 AV28WFT1EPSU #9  
AV28WFT1EISU #5 AV32WFT1EKS #8  
AV32WFT1EPG #9 AV32WFT1EPS #10

 VP 0102  
MS

Printed by: Schaltungsdiest Lange, Berlin (GERMANY)

## PACKING PARTS LIST

### AV-32WFT1EPG

△ Ref.No.	Part No.	Part Name	Description
1	RM-C50-1C	REMOCON UNIT	
△ 2	LCT0619-001A-U	INST BOOK	For ENG/GER/FRA/NED/ITA/ESP
△ 3	LCT0620-001A-U	INST BOOK	For FIN/NOR/DEN/SWE/POR
5	BT-54013-1E	WARRANTY CARD	
6	AEM3021-001-E	POLY BAG	
7	AEM1047-002-E	POLY BAG	
8	AEM1002-065-E	PACKING CASE	
9	AEM1039-071-E	EURO LABEL	
10	LC10384-002C-U	CUSHION ASSY	4pcs in 1set
11	AEM1051-001-E	X-RAY CARD	
12	2832WFT1-HSAE	S.DIAGRAM	ONLY ITALY(SERVICE)
13	AEM3119-001-E	CORNER POST	(x4)

### AV-32WFT1EPS

#### EXPLODED VIEW (PACKING) PARTS LIST

△ Ref.No.	Part No.	Part Name	Description
1	RM-C50-1C	REMOCON UNIT	
△ 2	LCT0619-001A-U	INST BOOK	For ENG/GER/FRA/NED/ITA/ESP
△ 3	LCT0620-001A-U	INST BOOK	For FIN/NOR/DEN/SWE/POR
5	BT-54013-1E	WARRANTY CARD	
6	AEM3021-001-E	POLY BAG	
7	AEM1047-002-E	POLY BAG	
8	AEM1002-065-E	PACKING CASE	
9	AEM1039-077-E	EURO LABEL	
10	LC10384-002C-U	CUSHION ASSY	4pcs in 1set
11	AEM1051-001-E	X-RAY CARD	
12	2832WFT1-HSAE	S.DIAGRAM	ONLY ITALY(SERVICE)
13	AEM3119-001-E	CORNER POST	(x4)

### AV-32WFT1EKS

△ Ref.No.	Part No.	Part Name	Description
△ 1	RM-C51-1C	REMOCON UNIT	
2	LCT0621-001A-U	INST BOOK	
5	BT-54013-1E	WARRANTY CARD	
6	AEM3021-001-E	POLY BAG	
7	AEM1047-002-E	POLY BAG	
8	AEM1002-065-E	PACKING CASE	
9	AEM1039-073-E	EURO LABEL	
10	LC10384-002C-U	CUSHION ASSY	4pcs in 1set
13	AEM3119-001-E	CORNER POST	(x4)
14	AEM3148-001-E	REG. CARD	